



The

CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2. Regist

Registered as a Newspaper

L. CXLVIII

AUGUST 23, 1947

Annual Subscription (with Diary) 30/-. Single Copies 1/-.

ALKALOIDS ANAESTHETICS FINE PHARMACEUTICALS



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There are many good brushless shaving creams, but none so attractive to men as Wright's TONSOR. For Wright's TONSOR has the antiseptic qualities, the clean, healthy, refreshing tang of Wright's Coal Tar Soap—men's favourite soap for generations past. Shortly, advertising will be appearing in the very masculine columns of The Times and Men Only: and that will mean a demand at your counter

Wright's TONSOR

WRIGHT'S COAL TAR BRUSHLESS SHAVING CREAM

With the antiseptic, refreshing coolness of famous Wright's Coal Tar Soap





CRESANTOL-15

THE GERMICIDE FOR MODERN ANTISEPTIC FLUIDS

READY AVAILABILITY

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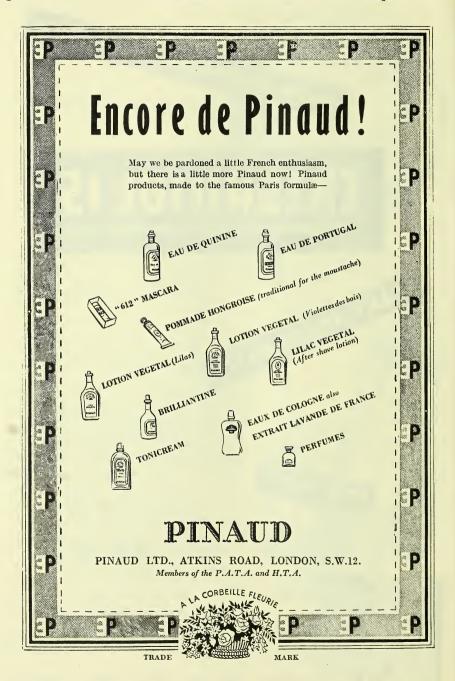
The high germicidal efficiency of Cresantol-15—its R.W. coefficient is 65 when suitably formulated—is not by any means the only advantage this Monsanto germicide offers in the manufacture of modern antiseptic fluids. In these days of shortages, the ready availability of Cresantol-15 is of major importance. And, when you add *low-cost* to both these advantages, Cresantol-15 is well worthy of consideration if you are contemplating the manufacture of an efficient antiseptic fluid. . . . Monsanto Chemicals Limited, Victoria Station House, London, S.W.1.

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For full general, technical and application data on Cresantol-15 write for Technical Service Bulletin No. 2B

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CROOKES HALIBUT OIL

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		_
PARCEL E 36 x 25 Capsules @ 2/6 Retail Less 25%	£ s. d. 4 10 0 1 2 6	BONUS 3 x 25 Capsules
* Amount of cash with order	3 7 6 6 9 • 3 0 9	RETAIL VALUE 7/6
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10% * Amount of cash with order PARCEL H	4 6	RETAIL VALUE S/-
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• Amount of cash with order	* 3 12 11	PONUS
12 x 100 Capsules @ 8/6 Retail Less 25%	5 2 0 1 5 6 3 16 6	I x 100 Capsules RETAIL
* Amount of cash with order	7 8	BONUS
36 x 100 Capsules @ 8/6 Retail Less 25%	15 6 0 3 16 6 11 9 6	3 x 100 Capsules RETAIL
• Amount of tith with order	•10 6 6	LI 5 6

CROOKES HALIBUT OIL

advertisements

... and from then onwards, throughout the winter, the demand for this best seller will steadily increase. To meet changing conditions we are introducing a new parcel consisting of 36 x 25 Capsules — Parcel E and this together with the other cash with order parcels listed here are the only ones available for this season. Bonus parcels K and O have been discontinued.

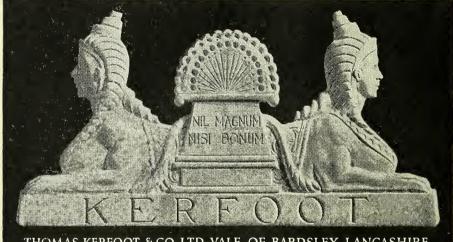
Particulars of our new Window Display Competitions and bonus leaflet/order cards will be available to the trade early in September. To avoid possible delays later in the year we suggest building up stocks now.

PATA



For GOOD TABLETS

K29



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Castury's BOURN-VITA

SUPPLIES MAY BE OBTAINED THROUGH YOUR WHOLESALE DRUGGIST



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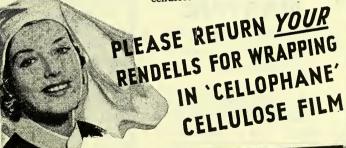
★Your stocks should be returned promptly, because the Public will now expect to purchase Rendells with the outer transparent wrapping.

important. Postage will be refunded upon all goods returned direct. The sender's name and address must be written on the outside of all packages and the quantity returned stated.

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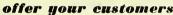
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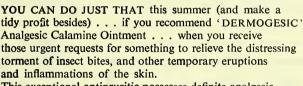
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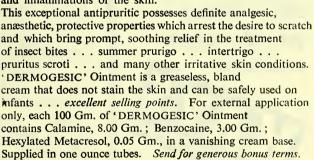




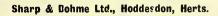


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=Bengue's Bulletin=



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Autumn Sun'
EXTRACT OF MALT WITH COD LIVER DIL

Display
THIS SHOWCARD

and get your share of extra custom.

This attractive Show Card in Full Colours (only 9½ × 8½ inches) needs no strutting or fixing, a 1 lb. jar in the centre of stand makes a rigid display. Placed on the Counter or in the Window it compels attention and creates sales.

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Trade 18/- doz.
Plus Tax ONE SIXTH
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3	oz.	 	@	7/-	per	dozen
4	oz.	 	@	8/6	per	dozen

ZINC & CASTOR OIL

2 oz. ... @ 8/9 per dozen

HYDROGEN PEROXIDE

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oz.

10 vol. 4 oz. @ 4/10 per dozen 8 oz. @ 6/9 10 per dozen 5/6 20 4 oz. (a) per dozen

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20 LYSOL

4 oz. (a) per dozen per dozen

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Wholesale Chemists & Draggists
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Telephone: HIGH WYCOMBE 2266/7/8. PILLS The British Made Products HOWARD LLOYD & CO LTD

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M&B Medical Products manufactured by

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PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM



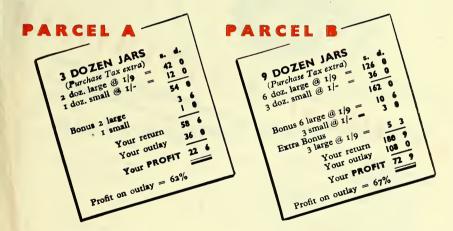
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The

Borofax Bonus

means 67% profit on outlay

A bonus of 13 to the dozen is offered on three dozen assorted lots, one dozen or more to be large size. In addition, to chemists ordering three bonus parcels, three large jars are included free. A new, arresting showcard is issued with each order. Good stocks are available.



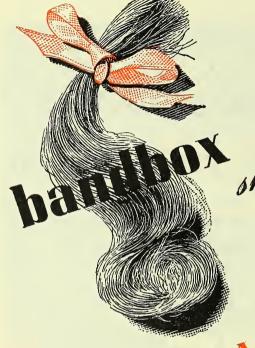
'BOROFAX'

OINTMENT

List prices: Glass jars, I/- plus 1 d. purchase tax, and I/9 plus 2 d. purchase tax. (Subject to trade discount)



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now 28/6 .. 5/6 doz. no change now 16/6 .. 7/6 size now 4/3 24 - 2rs now 216 319 size 21- size 1010

New size

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Retail price (Incl. Purchase Tax) .	. 1/6	3/-
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Per dozen	. 12/- . 2/-	24/-
Purchase Tax per dozen	. 2/-	4/-
Price per dozen on		
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ANADIN TABLETS



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VIRDOX nutrition

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Respaton TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma,
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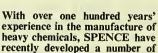
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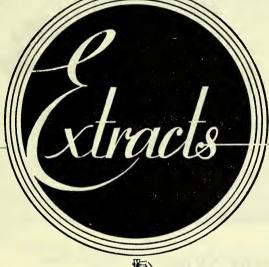
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NEWS OF THE WEEK

Wholesale Prices in July.—The wholesale prices of "chemicals and oils" fell slightly in July, compared with the previous month. The decline was almost entirely due to a seasonal reduction of about 6 per cent, in prices of fertilisers.

K.I.D. Exemptions.—An Order issued recently by the Treasury (S.R. & O., 1947, No. 1680) exempts from Key Industry Duty for the period August 13—December 31 the following chemicals:—Acid formic (not less than 98 per cent. w/w), dicyandiamide, ethyl orthoformate, ethyl phenyl-ketone (propiophenone), and succinic anhydride.

Infantile Paralysis. — The number of cases of poliomyelitis notified in England and Wales during week ended August 9 was 568, compared with 448 during the previous week. A Ministry of Health statement points out that the figure indicates a rate of increase of 27 per cent., compared with 50 per cent. shown in the previous four weeks.

National (War) Formulary. — The third edition of the National (War) Formulary has now been published by H.M. Sta-

tionery Office (price sixpence). The formulary comes into operation on October 1 and is intended for general use until the adoption of a new formulary for the National Health Service. Copies are being forwarded to chemists and doctors.

Britain's First Atomic Pile.—The first atomic pile to be completed in Britain, at the Atomic Energy Research Establishment, Harwell, nr. Didcot, Berks, came into operation recently. The pile, known as "Gleep" (graphite low energy experimental pile), was built primarily for experimental work in nuclear physics but is also to be used, until a more powerful pile comes into operation in 1948, for the production of small quantities of radioactive materials for biological and medical research.

A.Sc.W. Statement on Crisis. — The Association of Scientific Workers has issued a statement urging that, to ensure greater co-ordination of scientific effort in meeting economic difficulties in Great Britain, three scientific and three technical members should be added to the Cabinet's Advisory Planning Board. A scientific overhaul

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of all the country's industries, with a concentration of scientific workers on longterm and short-term production research, is necessary, says the statement, which claims that industrial research as at present carried out by competing firms causes overlapping and waste of time.

Metric Equivalents. - A circular has been sent to a number of scientific and medical societies calling attention to the following resolution which was adopted at a session of the Royal Society Empire Scientific Conference in July: "If textbooks and scientific data or memoirs are expressed in systems other than the metric, conversion factors or the metric equivalent should be included." The circular, which was signed by Sir Robert Robinson (president, Royal Society), Sir Henry Dale (president, British Association), Sir Edward V. Appleton (secretary, Department of Scientific and Industrial Research), Sir Charles G. Darwin (director, National Physical Laboratory), and Sir Clifford Paterson (chairman, British Standards Institution Council), asks governing bodies of the organisations concerned to consider the resolution, and suggests that a meeting should be called later, to discuss any points of difficulty.

British Association Meeting.—The first full post-war meeting of the British Association for the Advancement of Science is being held in Dundee, August 27-September 3, under the presidency of Sir Henry Dale, F.R.S. The programme includes lectures on subjects of general interest as well as more technical papers and discussions organised in thirteen specialised sections which include chemistry, physiology and botany. Dr. J. L. Simonsen, F.R.S., is taking the chair at a discussion on insecticides and a discussion on use of stable and radioactive tracer elements biology and chemistry is presided over by Sir Henry Dale. biology, chemistry and botany sections are combining for a discussion, on penicillin and other antibiotics, in which Sir Alexander Fleming will take part. The following antibiotic demonstrations will be given (a) Strains of Penicillium used in penicillin production; (b) the isolation of a fraction active in stimulating penicillin formation from aqueous extracts of pea (Pisum satirum); (c) penicillin and streptomycin preparations (Merck & Co., Inc.): (d) industrial methods of production of antibiotics (Glaxo Laboratories, Ltd.).

LOCAL NEWS

Blackpool R.A.M.C. Exhibition. — An exhibition of the work of the Royal Army Medical Corps is being held in Stanley Park, Blackpool, August 20-September 6, to stimulate recruiting and to augment the funds of the R.A.M.C. War Memorial Fund (see C. & D., May 17, p. 546).

Western Pharmacists' Association.—The following officers of the Western Pharmacists' Association and the West London Branch of the Pharmaceutical Society have been elected for 1947-48:—President, Mr. W. T. Pratt; Vice-president, Mr. R. Woolby Brooke; Treasurer, Mr. David T. Jones; Assistant Secretary, Mr. D. R. Evans; Social Secretary, Mr. Clifford Evans; Secretary, Mr. G. F. Butterworth, 97 Uxbridge Road, London, W.12.

Manchester Chemists' Golf. — The Robinson four-ball Stableford competition, played for by the Manchester Pharmaceutical Golfing Society at Fixby, on July 30, was won by Messrs. Platt & Rothwell (41 points). A competition for the Kerfoot trophy and memento prize, played at Ashton on August 13, was won by Mr. R. Demaine, 67. Before the competition members were entertained to lunch by Thomas Kerfoot & Co., Ltd., and were shown over the company's works. The trophy was presented to the winner by Dr. E. H. M. Kerfoot.

Golf at Aberdare.—The first golf meeting to be organised by the Aberdare and Merthyr Branch of the Pharmaceutical Society since 1939 was held at Aberdare on August 14. A medal competition was won by Mr. W. Nicholas, Trecynon (10), 66 net, with Mr. M. Owen, Aberdare (18), 68 net, runner-up. Mrs. D. Evans, Aberdare (30), 68 net, won a ladies' open competition, with Miss G. Humphreys (30), 78 net, second. The North Glamorgan cup, presented by Evans Medical Supplies, Ltd., was won by Mr. W. Nicholas (10), 66 net, with Mr. D. Richards, Swansea (9), 72 net, runner-up. A replica of the cup was presented to Mr. T. J. Morgan, Pontardawe, who was the winner in 1939. Mr. H. Nöel Thomas (vice-president and secretary) was in the chair at the distribution of prizes, which had been donated by Ashe Laboratories, Ltd., Johnson & Johnson (Gt. Britain), Ltd., J. Grossmith & Son, Ltd., and Solport Bros., Ltd. Miss G. Humhpreys and Messrs, D. L. Evans, J. E. T. Jones, A. B. Andrews, R. Sleeman and T. Watkins acted as stewards. 19

IRISH NEWS

Eire Health Bill Signed.—After consultation with the Council of State on August 13, the President of Eire has signed the [Eire] Health Bill, 1947, which is now law.

Eire Chemists' Golf.—The Irish Chemists' Golfing Society is holding an outing at Curragh, co. Kildare, on August 24 to compete for prizes presented by Proprietaries (Eire), Ltd., and Harwood Bros., Ltd. A match between the Irish Chemists' Golfing Society and the Ulster Chemists' Golfing Association is to be played for the B.D.H. cup at Warrenpoint, co. Down, on September 11.

Cork Guild of Pharmacy.—Mr. R. D. Clarke (president) was in the chair at a meeting of the Council of the Cork Branch of the Guild of Pharmacy held recently in Cork. Those present included Miss B. O'Donovan, Messrs. J. D. Blair and R. Daly (members of the Council of the Pharmaceutical Society of Ireland), and Messrs. C. O'Byrne, T. Lyons, J. F. Crowley, J. J. O'Regan, D. Fleming, D. O'Leary, J. O'Connor and H. Gibbs. Apologies for absence were received from Messrs. D. J. O'Hanlon and L. P. Johnson. The Council approved the issue to all members of a memorandum stating that the question of unregistered persons at present engaged in pharmacy had been brought to the notice of the Guild Council, and a special meeting had been called to consider the position. At the meeting it had been stated that, not only in Cork but throughout Eire, many persons employed in pharmacies had never been registered with the Pharmaceutical Society of Ireland, and were performing duties properly reserved to registered The memorandum went on to point out that any claims made by chemists for a monopoly in the sale of medicines were prejudiced, in the eyes of the public, by the employment of unregistered persons; members of the public would fail to see the difference between buying medicines in a pharmacy from an unregistered person and buying medicines in any other shop. employment of unregistered persons was not in the best interests of pharmacy and hindered efforts to improve the status of the profession.

Ulster Chemists' Association.—A meeting of the Executive Committee of the Ulster Chemists' Association was held in Belfast on August 5. Mr. R. Gibson (president) reported that he had interviewed the executive officer's department of the Police committee of Belfast corporation concern-

ing the early granting of a 6.30 p.m. closing order for Belfast chemists. The Shops Act regulations, however, required that before making a closing order the local authority must prepare a register of shops in its area, which would take a considerable time. It was to be regretted, said Mr. Gibson, that further delay must take place before the closing order could be granted. Following complaints from members that certain scarce commodities were being supplied direct to welfare clinics, Miss A. E. Strachan (secretary) reported that a protest had been made to the manufacturers concerned. It was pointed out, in reply, that the products in question were supplied on a special allocation by the Ministry of Food and would not affect the chemists' allocation in any way. A letter was read from a member inquiring what he should do when offered a bonus for a window display for an eligible non-Chemists' Federation proprietary. It was agreed that traders should not accept a bonus offer for any window display which would infringe the window display which would infringe the Chemists' Federation window display conditions. The following were elected to membership:—Mr. T. L. Douglas, Ph.C., successor to Mr. C. Boyd, Ph.C., 14 Donegall Road, Belfast; Mr. B. A. McGlade, Ph.C., successor to Mr. D. L. Bryne, 7 Divis Street, Belfast; Mr. R. A. Murtagh, Ph.C. Endale Pharmacy, 124 Murtagh, Ph.C., Endale Pharmacy, 124 Cavehill Road, Belfast; Mr. George Mc-Cloy, Ph.C., successor to Mr. J. McIlroy, Ph.C., Kilrea. The following, whose names had been approved at a previous meeting of the Associates' committee, were elected as Associates:—Messrs. W. J. Blair and James Graham (apprentices).

OVERSEAS NEWS

American Chemical Conference.—More than 11,000 chemists and chemical engineers are expected to attend the 112th national meeting of the American Chemical Society to be held in New York, September 15-19.

Gramicidin Tests. — Laboratory tests with gramicidin by the University of California Medical School have led to the announcement that the compound "may be as important to surface medication as penicillin is to internal treatment." Gramicidin in its original form was too toxic for use, and a modified gramicidin, produced by a research laboratory of the Californian Federal Department of Agriculture, is said to be weak enough not to cause toxicity or to cause harm to red corpuscles.

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COMPANY NEWS

Lesters' Chemists, Ltd. (P.C.).—Capital £100. To carry on the business of chemists and druggists, opticians, etc. Leslie H. Lester, M.P.S., and Herbert W. Lester, directors. R.O.: 2 Market Place, Nuneaton.

WILLIAM MARTINDALE WHOLESALE, LTD. (P.C.).—Capital £5,000. To carry on the business of wholesalers of medicinal, pharmaceutical and proprietary goods, etc. First directors are not named. R.O.: 14 Bruton Place, London, W.1.

L. CAMERON & SON, LTD. (P.C.).— Capital £3,600. To acquire the business of a pharmacist carried on by Colin Cameron, M.P.S., at 12-14 Broad Street, Seaford, Sussex. Colin L. Cameron, M.P.S., Celene M. Cameron, Duncan C. J. Cameron and Dorothy Cameron, directors.

SIDNEY R. HUGHES, LTD. (P.C.).—Capital £4,000. To acquire the business of a chemist and druggist and photographic dealer carried on by Sidney A. R. Hughes at 69 Churchfield Road, Acton, London, W.3. Sidney A. R. Hughes, M.P.S., and Francis S. Edwards, M.P.S., directors.

WINDSOR SOAP Co., Ltd. (P.C.).—Capital £100. To carry on the business of soap manufacturers and dealers in oils and saponaceous substances, etc. Gertrude M. Draycott, Geoffrey P. Waite, and Wyndham Waite, directors. R.O.: 27/28 High Street, Windsor.

Lever, Brailsford & Co., Ltd. (P.C.)—Capital £1,000. To carry on business of manufacturers of and dealers in pharmaceutical preparations, etc. The directors are: Jacob N. Lever, Albert R. Brailsford, Ronald M. S. Lever and Herbert Rawlinson. R.O.: 4 York Street, Manchester.

Bedfordshire Medical Equipment Co., Ltd. (P.C.).—Capital £500. To carry on the business of manufacturers and dealers in scientific, optical, medical and surgical instruments and supplies, etc. W. C. Burton and G. Lenton, directors. R.O.: 28 Market Square, Potton, Beds.

A. R. Baker, Ltd. (P.C.).—Capital £2,500. To acquire the business of a chemist, druggist and optician carried on by Alfred R. Baker at Paignton, Devon. Alfred R. Baker, M.P.S., Clare N. Baker and Philip Baker, directors. R.O.: 8 Torbay Road, Paignton.

Kriss Creme-Wave, Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in cosmetics, toilet and beauty preparations, etc. Leslie M. H. Summers and Emile Bachman, directors. R.O.: 176 Commercial Road, Bournemouth.

Sanoda, Ltd. (P.C.). — Capital £5,000. To acquire the business of a manufacturing chemist carried on by A. S. Baxter as "Sanoda Manufacturing Co." at 216 High

Street, Pendleton, Manchester. Alfred S. Baxter, Edna Baxter, William C. Evans and Joseph Frankland, directors.

GLORETTE, LTD. (P.C.).—Capital £1,000. To carry on business of manufacturers of and dealers in pharmaceutical products, cosmetics and toilet products, etc. Louis Fox and Katherine J. Dickson, 18 Hoveden Road, London, N.W.2, directors. R.O.: 108-110 New Cavendish Street, London, W.1.

John Hamilton & Co. (Pharmaceuticals), Ltd. (P.C.).—Registered in Edinburgh. Capital £15,000. To carry on business of chemical manufacturers, etc. James Whitehead Hamilton, 11 Queens Park Avenue, Glasgow; and George Smith, "Beechwood," 190 Glasgow Road, Paisley, directors. R.O.: 16 Watson Crescent, Glasgow Cross, Glasgow, C.1.

SLUMBERLAND (RESEARCH), LTD. (P.C.).
—Capital £100. To carry out scientific analysis of and experiments and investigations into the structure, production and mixing of raw materials and animal, vegetable and mineral substances, etc. Thos. C. Williams, 84 Bridge Lane, Bramhall, Stockport, and William Thompson, 2 South Road, Didsbury, Manchester, directors. R.O.: Redfern Road, Tyseley, Birmingham.

Jellinek-Walther, Ltd. (P.C.).—Capital £1,000. To carry on business of manufacturers of and dealers in brushes and brushware and component parts thereof for domestic, toilet or commercial use, etc. Mrs. Frances M. Jellinek, Paul Jellinek, A. Walther-Hilfiker and E. Walther-Henlermann, directors. Solicitors: Hugh V. Havraway & Son, 2 Field Court, London, W.C.1.

Timothy White & Taylors, Ltd. — Interim dividends for the year ended December 28 1946, have been paid on the ordinary shares amounting to 32½ per cent., less tax, against 30 per cent. less tax in 1945. At the ordinary general meeting of the company held recently the retiring directors Messrs, Louis Nicholas, J.P., F.C.A., G.A. Hargin, M.P.S., and S. B. Mason were re-elected.

BUSINESS CHANGES

Boots, Ltd., have acquired the pharmacy at 35 Chester Road (East), Shotton, Flints. formerly carried on by Mr. Dan Lewis, M.P.S.

ARTHUR SMITH (CHEMISTS), LTD., have acquired the business at 124 Harrowgate Road, Leeds, 7, formerly carried on by Mr. C. Bennett Mitchell, M.P.S.

Kirkpatrick, Barr & Paton, with their subsidiary, Paton, Schultz & Co., Ltd., are removing, on September 1, to Market Buildings, 29 Mincing Lane, London, E.C.3 (Telephone: Mansion House 8326).

TOPICAL REFLECTIONS

Targets and Cuts

Your excellent summary of the Prime Minister's recent statement in the House of Commons on the national emergency (p. 190) focuses attention on the non-political aspects of the subject, which are those of major interest to readers of a trade and professional journal. As I see it, the emergency involves a discrepancy between targets set by planners and cuts (this word may stand for all kinds of frustration) to be allowed for when preparing to aim at targets. Of plans, and of committees to supervise their execution, we have enough and to spare. But in the first place many plans are in a state of flux owing to frequent changes made in Whitehall, and in the second place shortages of materials, parts, and finished articles impede industry and trade at almost every turn. One has only to look through the advertising pages of recent issues of THE CHEMIST AND DRUG-GIST to find expressions of regret on this account from some of our leading houses with such phrases as "we are not yet out of the wood" and "supplies may have to be rationed." With so much declared activity in Government departments, we might suppose that all these hives of industry are choked with work—as, in fact, I believe one or two are; yet in "The Times" I read, one day last week, an advertisement beginning: "Young man (35), at present stagnating in Ministry of -, desires Another point is worth considering. In current articles and discussions on industrial management too much stress, I submit, is being laid on consultation: managements, as a rule, know quite well what is wanted for a production drive, but are thwarted by "bottlenecks."

Early Books of Reference

It is somewhat of a blow to our national self-esteem to read, in the article "A Limited Choice of Authors" (p. 204), about the backwardness of early English printers in issuing medical treatises. But it is the plain truth. The late Sir William Osler's "Incunabula Medica," covering the period from the invention of printing to the year 1481, does not include a mention of any book printed in this country. Several Continental printers were turning out, soon after the art of printing began to spread, Latin translations from Greek and Arabic authors; and English physicians of the fifteenth and sixteenth centuries must have obtained some

of these works. We know this from the lists left by Bullein and Recorde. Bullein's was perhaps the more up-to-date of the two: among his few authors was one who was living at the time the "Bulwarke of Defence" appeared. This man, Johannes P. Placotomus (whose name was wrongly printed in the "Bulwarke") was a professor of medicine at Königsberg from 1544 to 1549, and practised in Danzig from that year till his death in 1574. His family name was Brettschneider. As your contributor suggests, the antidotarium of a medical textbook was the part of greatest use to apothecaries. Someone with the requisite leisure may one day make a study of these formularies. It is obvious that various authors took popular formulas and modified them; hence such a title as "Hiera Picra Galeni ex Mesue."

A Pharmacist in Fiction

The re-issue of Sir Max Beerbohm's "Zuleika Dobson," first published in 1911, is a welcome event. (You referred to the book, I believe, on its original appearance.) In this fantasy, as he calls it, the distinguished author has transformed some of his experiences of an older Oxford than most admirers of that city can remember. For British pharmacists this novel has the added attraction of a thumbnail sketch of Mr. (afterwards Dr.) G. Claridge Druce, who at the time of the events narrated was the proprietor of a pharmacy in the High. By that time Mr. Druce had become an institution in the life of Oxford; for when the Duke of Dorset slipped on a piece of orange peel and fell, abrading both his hands. "Mr. Druce, the chemist, had anon the privilege of bathing them and plastering them, also of balming and binding the right knee and left shin." During this process "the sight of some bottles of Cold Mixture" on the shop counter reminded the Duke that he had a cold. His frank confession of the fact and his eager purchase of the remedy, with a first dose (for which he felt "magically better ") on the spot, are described with characteristic touches of satire. When he suggested increasing the dose, "Mr. Druce was respectively firm against that." Those who knew Dr. Druce will recognise truth here as well as satire. Under his debonair manner there was firmness, and firmness was associated with an extraordinary capacity for work. Xrayser

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MARRIAGES

McCrae-Hampshire. — At Darlington, recently, Alexander McCrae, M.P.S., Market Place, Donington, Spalding, Lincs., to Rene Hampshire, S.R.N., Darlington.

PIKE-HYLAND.—In Dublin, on August 6, Maurice St. John Pike, Dublin, to Una Hyland (until recently, assistant registrar of the Pharmaceutical Society of Ireland).

DEATHS

Buckley. — On August 15, Mr. Edgar Buckley, M.P.S., aged fifty-four. Mr. Buckley was secretary of the Leeds Pharmaceutical Committee, and a past chairman of the local Branches of the Pharmaceutical Society and National Pharmaceutical Union. A professional acquaintance writes: "Mr. Buckley, who was the proprietor of a busy dispensing business in the centre of Leeds, gave untiring service and earned the respect of his clients and neighbouring pharmacists. As a voluntary worker in local pharmaceutical affairs, he was unstinting and was always being called upon for help and advice in those matters in which he became an authority. Some feel that he gave too much of his strength and time to the work dealing with the manning of pharmacies during the war years, and for weeks all his spare time was spent in this work in his capacity as secretary of the local statutory Pharmaceutical Committee.' For the past sixteen months Mr. Buckley had been confined to his bed.

ROBERTS.—On August 16, at Whistley Nursing Home, Yelverton, Devon, Mr. William Arthur Roberts, M.P.S., Devonia, Yelverton, aged seventy-six. Mr. Roberts served his apprenticeship at Hull and after experience in the West End of London, Kidderminster, Callington and elsewhere, he purchased, some forty years ago, a business at Yelverton which he conducted until he retired about six years ago. Mr. Roberts was a playing member of the Yelverton Golfing Club, of which he had been secretary and treasurer, and he was an active member of the Literary Society. His hobbies also included photography and walking, and he was deeply attached to Dart-moor. The funeral service took place at The Rock Methodist Chapel. Yelverton, on Mr. Roberts was a batchelor. August 19.

Rushton.—On July 21, Mr. William Burton Rushton, M.P.S., 75 Bankfield Lane, Churchtown, Southport, aged sixtyfive. Mr. Rushton qualified in 1901.

PERSONALITIES

MR, J. E. PATER has been appointed an Under Secretary in the health division, Ministry of Health,

MR. GEORGE R. MACKAY has been awarded the Duncan pharmacy medal at Heriot-Watt College, Edinburgh.

MR. ROBERT MCAULEY, M.P.S.N.I., has been elected secretary of the Junior Chamber of Commerce recently formed at Rathfriland. co. Down.

MESSRS. JOHN C. DOWLING, M.P.S.I., 251 Crumlin Road, Dublin, and J. S. BENNETT, PH.C. (son of Mr. David S. Bennett, M.P.S.I., F.I.C.), The Medical Hall, Cahirciveen, co. Kerry, have qualified as Licentiates of the Royal Colleges of Physicians and Surgeons, Ireland.

MR. E. T. NEATHERCOAT, C.B.E., J.P., Ph.C. (a past president of the Pharmaceutical Society, and chairman, Prince of Wales Hospital, Tottenham, London, N.15) has been appointed to the North-East Metropolitan Regional Hospital Board under the National Health Service.

MR. H. F. HAYLLAR, M.P.S. (proprietor of James Hayllar & Son, Hoddeson, Herts) writes that, anticipating requirements of the National Health Service, he has included among extensions recently made to his pharmacy a "comfortably furnished waiting room" which is to be available for the use of customers who wish to wait while their medicines are being dispensed. Mr. Hayllar took over his present business from his father, the late Mr. James Hayllar, who, in 1891, purchased a pharmacy in Hoddesdon established in 1835. Mr. Hayllar has been for a number of years secretary of the Hertfordshire Pharmaceutical Committee.

MR. F. Wokes, Ph.D. (Lond.), B.Sc., F.R.I.C., Ph.C. (a director of Ovaltine Research Laboratories, King's Langley, Herts), read a paper at the International Pharmaceutical Conference at Zurich recently on the use of standard samples of pharmaceutical preparations containing vitamins in the assay of those preparations by physico-chemical and microbiological methods. It was possible, he had found, to produce from a number of pharmaceutical materials containing vitamins standard samples which were representative and reasonably stable. Great economies of time and labour could be effected, he said, by the use of the standard samples, and by sharing amongst different workers results obtained on them.

WILLS

Mr. Daniel Arnott, Ph.C., Brynffrwd, Coychurch, nr. Bridgend, Glam, left £4,963, with net personalty £1,903.

MR. JAMES BEACHELL, PH.C., 44 Carisbrooke Drive, Mapperley Park, Nottingham, left £19,581, with net personalty £19,518.

MR. JAMES REID, M.P.S., Tarquah, Glasgow Road, Dumfries, left personal estate in England and Scotland valued at £3,508.

Mr. Cyrll Inglis Burns, M.P.S., 81 Recreation Road, Norwich, left £1,656, with net personalty £850.

Mr. Herbert Shuttleworth Waite, M.P.S., 6 Firzroy Drive, Oakwood, Leeds, left £5,018, with net personalty £4,944.

Mr. George Wilson, 39 Little Lane, Bradford, brush manufacturer, left £10,980, with net personalty £10,873.

Mr. Walter Wright Kingston, M.P.S., 85 High Street, Skelton in Cleveland, Yorks, left £13,514, with net personalty £13,332.

MR. ALBERT EDWARD ADAMS, M.P.S., Whiteway, nr. Stroud, Gloucs, formerly of Silsden, Yorks, left £2,110, with net personalty £979.

MR. LEONARD BLAKELEY, PH.C., 20 Church Street, Newchurch in Rossendale, Lancs, formerly of Waterfoot, Lancs, left £5,311, with net personalty £5,212.

MR. FREDERICK CHARLES SWIGG, 5 Fairview Road, Salisbury, Wilts, cosmetics manufacturer, left £112, with net personalty £81.

MR. ARCHIBALD Amos, 7 South Oxford Street, Edinburgh, a member of Archibald Young & Son, Ltd., surgical instrument makers, left £1,214.

Mr. Arthur James Hoadley, M.P.S., 48 West Towers, Pinner, Middlesex, formerly of Harrow View, Harrow, left £6,264, with net personalty £5,451.

MR. HUGH BELL McMinn, M.P.S., Windyridge, Coronation Street,, 19 Main Street, and 33 Kirk Road, Wishaw, Lanarkshire, left £21,529.

MR. HERBERT SIDNEY PEIRSON, M.P.S., 5 Hilton Lane, Little Hulton, Lancs, formerly of New Brighton, left £2,166, with net personalty £1,688.

Mr. George Hunt Chaston, Ph.C., 44 Hook Rose, Tolworth, Surbiton, Surrey, formerly of 2 Yew Lane, Ecclesfield, Yorks, left £5,366, with net personalty £5,176.

MR. ANDREW GRIEVE ADAMSON, M.P.S., Altmohr, Milton Road, and The West End Pharmacy, Milton Road, Kirkcaldy, left personal estate in England and Scotland valued at £10.864.

ARCHIBALD ALEXANDER LESLIE MELVILLE, EARL OF LEVEN AND MELVILLE, K.T., Glenferness House, Nairn (who was associated with Borax Consolidated, Ltd.), left £335,137, with net personalty £233,521.

MR. WILLIAM ROBERT OTTWAY, The Niche, Laleham, nr. Staines, Middlesex (chairman of W. Ottway & Co., Ltd., Ealing, optical instrument manufacturers), left £115,049, with net personalty £113,768.

MR. GEORGE EDWARD BEDFORTH, 23 Exeter House, Putney Heath, London, S.W.15, of M. Bedforth & Sons, soap manufacturers, Aspley, Huddersfield, left £29,764, with net personalty £29,419.

MR. ALFRED WILLIAM WRIGHT, M.P.S., 6 Beaufort Road, Horfield, Bristol, managing director of A. J. Colley & Co., Ltd., North Street, Bristol, left £4,897, with net personalty £4,232.

Mr. Alfred Preston, 92 Montgomery Road, Sheffield, managing director of J. Gilbert Jackson, Ltd., wholesale chemists, Ellin Street, Sheffield, left £12,412, with net personalty £12,226.

Mr. Hubert George Rowbotham, Torleigh, Petitor Road, St. Marychurch, Torquay, managing director of Gordon Murray, Ltd., and Birley's Antacid, Ltd., left £15,967, with net personalty £14,826.

MR. WILLIAM HENRY GOY, M.P.S., 48 Primrose Mansions, Prince of Wales Drive, Battersea, London, S.W.11, late of 17 Battersea Rise, S.W.11, left £15,907, with net personalty £15,174.

MR. SAMUEL HARPHAM TOTTLE, M.P.S., Grand Avenue, West Southbourne, Bournemouth, formerly of 15 Kingsway, Wallasey, Cheshire, left £9,463, with net personalty £9,402.

DR. WALTER SAXON DIGGLE, F.R.C.S., M.P.S., 4 Poplar Bank, Huyton, nr. Liverpool, formerly of Knowsley, nr. Prescot, orthopædic surgeon, formerly in business as a chemist at Hindley, left £11,154, with net personalty £5,733.

DR. DAVID HOOPER, LL.D., PH.C., F.R.I.C., 50 Durham Avenue, Bromley, Kent, formerly of the Indian Government Service, the Wellcome Historical Medical Museum, and the Bio-Chemical Department of Bristol University, left £2,266. with net personalty £2,205

MR. NORMAN FROGGATT KINGZETT, M.B.E., Karridale, West Byfleet, Surrey (chairman and joint managing director of Sanitas Co., Ltd., and W. Woodward, Ltd., chairman of Sanitas Trust, Ltd., and Oppenheimer, Son & Co., Ltd.), left £48,720, with net personalty nil.

SIR WALTER LANGDON-BROWN, M.D., LL.D., D.Sc., F.R.C.P., 12 Madingley Road, Cambridge, formerly of Cavendish Square, London, W.1 (Emeritus professor of Physic in the University of Cambridge, and a former member of the Pharmaceutical Society's Council), left £24,105, with net personalty £23,631.

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TRADE NOTES

Price Increase.—In their announcement in this week's issue, R. Gibson & Son, Ltd., Erskine Street, Manchester, give details of price increase for their Mecca pastilles.

Photographic Finishing.—On another page in this issue, Will R. Rose, Ltd., 20 St. Ebbes Street, Oxford, advise that they are now in a position to handle all kinds of photographic finishing work for the trade.

Current Supply Position. — In their announcement in this issue, Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2, give details of the current supply position of their range of products.

Better Supplies.—In their advertisement in this issue, Pinaud, Ltd., Atkins Road, London, S.W.12, announce that their toilet and cosmetic products are in a little better supply.

English Distilled Oils. — Among the essential oils distilled by Stafford Allen & Sons, Ltd., Wharf Road, London, N.1, cinnamon oil is a speciality. The makers invite inquiries from the drug trade.

Business Efficiency Exhibition. — Organised by the Office Appliance Trades Association, 11-13 Dowgate Hill, London, E.C.4, this exhibition will be held in the Empire Hall, Olympia, London, from October 1 to 11.

Supplies Limited.—Evan Williams Co., Ltd., Aintree Road, Greenford, Middlesex, announce that, due to production difficulties, they are compelled to impose a quota on their products and confine distribution in the main to pre-war customers.

Tablet Making Facilities.—Cal-Ma-Vite Laboratories, Ltd., 32-40 North Street, Horsham, advise the trade that, with their removal to larger premises, they are in a position to manufacture practically any size or type of tablets.

Bonus Offer.—Details of bonus offer on parcels of Borofax brand boric acid ointment are given in their announcement this week by Burroughs Wellcome & Co. (The Wellcome Foundation, Ltd.), 12 Red Lion Square, London, W.C.1.

Flanders Fair.—The second International Fair of Flanders is being held at the Palais des Expositions, Ghent, Belgium, from September 20 to October 4. Applications for space should be sent to the secretary, Foire Internationale des Flandres, 17 rue de Flandre, Ghent, Belgium.

Lanette Wax SX.—Ronsheim & Moore, Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1, have issued a new edition of their booklet on Lanette wax SX, giving information regarding this product together with formulas for medical, pharmaceutical, cosmetic and toilet preparations.

Penicillin Preparations. — Supplies of penicillin preparations (ointments, creams, lozenges, sprays and other products) are available from Cuxson, Gerrard & Co., Ltd., Oldbury, near Birmingham. Details are given in the company's advertisement in this issue.

Synthetic Soap Notice. — British Solvates, Ltd., Wharf Road, Ponders Road, state in their advertisement that registration has been applied for in respect of Novo-Sope and warn the trade against other makes of synthetic soap which may be offered under the title of their product.

Appointment of Sole Distributors.—Carlton Pharmaceutical Industries, Ltd., 78 Bollo Bridge Road, London, W.3, announce in this issue that Meggeson & Co., Ltd., of Chessington Hall, Chessington, Surrey, have been appointed sole agents for their Chilbalm, Peach balm, Spot balm and flower petal dusting powder.

New Products. — Marshall's Proprietories, Ltd., announce in this issue two new products, Luma cubes, an anti-rheumatic compound, packed in 2-cube cartons, and All-Fab washer, an economic fabric washer, packed in cartons. Messrs. Marshall also give details of their other products, such as Petal dust moth preventor and medicated nursery powder (23/8).

Standard for Exposure Meters. — The British Standards Institution has issued a specification (B.S. No. 1383, 1947) for photo-electric meters used in the determination of the speed of photographic negative material. Copies may be obtained from British Standards Institution (Sales Department), 24 Victoria Street, London, S.W.1, price 2s.

Ekammon.—Ward, Blenkinsop & Co., Ltd., Halebank Factory, Near Widnes, Lancs, announce that their product, previously described as W.B.195, is now known under the registered trade mark Ekammon. It is packed in containers of 50, 100, 500 and 1,000 tablets. Detailed literature containing an extensive bibliography will shortly be available on request.

New Chemical List.—A new list of amines and derivatives, organic intermediates and general chemicals has been issued by Robinson Brothers, Ltd., Ryders Green, West Bromwich. Copies are available on application to the makers.

in Dentistry. - Organised courses in dentistry are arranged for entrants at the school of dental surgery of the Royal Dental Hospital of London, Leicester Square, London, W.C.2. Students are admitted for the curriculum for the B.D.S. degree and L.D.S. diploma in May, October and January. Further particulars may be obtained from the Dean of the School.

Extending Capsule Packing.—John Tye & Son, Ltd., 457 Caledonian Road, London, N.7, capsule makers for over a century, state that the use of gelatin capsules as a handy and safe form of packing small quantities of fluids is extending to other fields beyond medicines and veterinary products. New uses for capsule packing include household lubricating oil, insect repelling lotions and stain removers.

Immunisation Campaign.—The Ministry of Health have sent to local authorities a handsomely produced brochure-wallet describing, with specimens, the details of a publicity campaign which is being conducted to persuade mothers to have their children immunised against diphtheria. Pharmacists are being invited, as part of the campaign, to exhibit small posters in their shops.

British Industries Fair, 1948. — The next British Industries Fair will be held in London and Birmingham, May 3-14, 1948. Application forms for space are being circulated shortly by the Board of Trade to manufacturers known to be interested. Application may also be made direct to the Export Promotion Department, Board of Trade, 35 Old Queen Street, London, S.W.1.

The Proprietary Articles Trade Association

Additions and Alterations to Protected List (Part 1) (Additions).—The Crookes Laboratories, Ltd., Halimalt, 1-lb., 5s. 3d., 42s. doz. (exempt from tax). (Alterations).—The British Drug Houses, Ltd., Tanna-Flavine jelly, small tubes, 9s. 6d. doz., tax 1s. 7d., i.r.p. 1s. 4d., large tubes, 2s. 4½d., 19s. doz., tax 3s. 2d., i.r.p. 2s. 7½d.

Alterations (Part 2).—County Perfumery Co., Ltd., Brylcreem, A.476, jars, and A.299, tubes, 1s. 2½d., 9s. 3d. doz., tax 9s. 3d., i.r.p. 2s. Brylfoam, F.501, tubes, 8½d., 5s. 4d. doz., tax 1s. 9d., i.r.p. 1od. The Crookes Laboratories, Ltd., zinc cream, 1s. 6d., 12s. doz., tax 4s., i.r.p. 1s. 1od.

cream, 1s. 6d., 12s. doz., tax 4s., i.r.p. 1s. 10d.

EXECUTIVE COUNCILS

A FURTHER list of pharmacists nominated by Pharmaceutical Committees to serve on Executive Councils set up under the National Health Service is given below. Previous lists were published on July 12, p. 51, and August 9, p. 165.

BIRMINGHAM, Messrs. H. J. Callow and D. J. Rushton.

BOLTON, Messrs. W. Crumblehulme and E. N. Fox.

CARDIFF, Messrs. S. B. Eason and A. S. Johnson.

CARDIGANSHIRE, Messrs. David E. Jones, Aberystwyth; and B. Taylor Lloyd, Aberystwyth.

CARLISLE, Messrs. I. L. Robson and J.

CARMARTHENSHIRE, Messrs, D. Stanley Davies, Carmarthen; and D. Morris, Llanelly.

Denbighshire and Flintshire, Messrs. Gomer M. James, Rhyl; and T. J. Roberts, Ruthin.

GLAMORGAN, Messrs. W. Oswal Davies. Pontypridd; and W. P. Williams,

Hull, Messrs, H. Bays and L. S. Sellé. London, Messrs. A. R. Melhuish and G. A. Tocher.

MERIONETHSHIRE, Messrs. I. Henry Griffiths, Penrhyndendraeth; and G. Wynne Williams, Dolgelley.

MERTHYR TYDFIL, Messrs. I. Isaacs, Merthyr Tydfil; and Ifor L. Richards, Treharris.

MONMOUTHSHIRE AND NEWPORT, Messrs. J. C. W. Evans, Newport; and A. C. Sumption, Blackwood.

Montgomeryshire, Messrs. David Jones, Llanfyllin; and Elwyn Jones, Welshpool.

OXFORD AND OXFORDSHIRE, Messrs. J. A. Dezcon, Banbury, and D. R. Thomas,

Pembrokeshire, Messrs. B. Pugh Davies, Haverfordwest; and T. W. Watts, Haverfordwest.

SWANSEA, Messrs. J. S. Gilbert and G. Lloyd.

Local Authorities' Nominees

The following pharmacists have been nominated to serve on Executive Councils as nominees of local authorities:

BLACKPOOL, Mr. D. J. Bailey. HASTINGS, Mr. E. W. Skyrme, Ph.D. PLYMOUTH, Mr. T. B. Harvey. PRESTON, Mr. W. J. J. Platt.

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EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination, held in England

and Wales in July:—
Austin, Albert William, Chester
Bailey, Harold Edward, London Crouch, Grace Dorothy, Bedford Davies, Arthur, Sedgley Edgworth, Raymond John, Cambridge Edwards, Frank Clifford George, Walsall Fielding, Michael Everett, Scunthorpe Hack, Ronald Ernest, Farnham, Surrey Hanbury, Raymond Lycett, Woldingham Herrick, Frank Thomas, Leicester Johnson, Frank Horsefield, Blackburn Kirk, William Francis, Sittingbourne Mander, Geoffrey Arthur, Birmingham Mee. Gerald Rudyard Struan, Leek Oliver, Hazel, Smethwick Ostins, Walter Thomas, Tipton Parker, Joyce, London Robinson, Allan Henry, Nottingham Robinson, James, Darlington Rowley, Francis Henry Joseph, Torquay Smith, Geoffrey Ivor, Swansea Thomas, Geoffrey Frederick, Portsmouth Thompson, Joyce Frances Mary, Chester Wall, Bernard Lewis, London

Whiffin, Richard John, Bedford The following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination held in Scotland in

July:-

Anderson, Charles, Arbroath Anderson, Robert James, Liverpool Atherden, Lewis Malcolm, Millport Banks, Margaret Colvin, Sunderland Birkbeck, Jack, Nottingham Birkett, Thomas Hall, Hoylake, Cheshire Blacklock, Leonard, Birkenhead Booth, Robert Lupton, Bradford Boyle, Thomas David, Lanark Bristol, George Edward, Sutton-in-Ash-Calderwood, James, Paisley Carr, Thelma Muriel, Newcastle-on-Tyne Cloud, Joan, Ilford, Essex Coldwell, Constance Mary, Ilkley Cruickshank, Benjamin, Inverurie Cuthbert, Peter Ralph, Huddersfield Davidson, Gordon Leversage, Huntly Davies, Brenda Rigg, Leeds Davies, Griffith David, Prestatyn Driver, Stanley, Leeds Dunn, David, Glasgow Fairley, Mary Elizabeth, Edinburgh Fraser, Hellen Shirley, Aberdeen Gibbons, Doreen, St. Helens Gilchrist, James Lindsay, Dunfermline

Gordon, Norman, Leeds Grimshaw, John Henry, Ormskirk Hall, Harold, Aberdeen Hall, Vera Joyce, Birkenhead Halsall, Muriel Dorothea, Liverpool Hartley, James Wilfrid, Nelson Hopkins, Peter Gilbert, Leicester Johnson, Margaret, West Hartlepool Kitson, Eveline Margaret, Ossett Kochan, Max, Edinburgh Leach, Gilbert Francis, Rhyl Leadbetter, Cecilia Josephine, Liverpool Macaulay, William James, Edinburgh McBride, Robert John, Rothesay McCann, Monica Mary, Edinburgh McDiarmid, William Patrick, Edinburgh Mackay, George Robert, Glasgow McKenzie, Charles, Alexander, Glasgow McLeod, Thomas McDonald, Perth McQueen, James, Edinburgh Mann, Mary Kathleen, Brighouse Mason, James Lewis, Wallasey Moody, Stanley, Batley, Yorks Nicholson, John Walton, Edinburgh Nicol, John, Aberdeen Purdie, Joseph, East Calder Rawlings, Leonard, Leeds Rhodes, Marjorie, Leeds Richardson, Muriel, Newcastle-on-Tyne Robertson, John Philip, Aberdeen Sherwin, Joan Alice, Silsden, Yorks Sorrell, Ann Forbes, Edinburgh Spearritt, Thomas, Liverpool Spiero, Simon, Liverpool Steinsberg, Maurice William, Prestwich Stephenson, George Stockwell, Castleford Swaap, Marjorie, Leeds Taylor, Raymond George, Liverpool Walker, John Oddy, Dewsbury Whitaker, Mary, Edinburgh Whitehouse, Robert Campbell, Liverpool Wight, Lancelot Graham, Middlesbrough Williams, Charles, Birkenhead Wing, Ronald Arthur, Doncaster Wright, Joseph Crossley, Birkenhead

Representatives' Showcards. — Each month, I, a commercial traveller, and my hundred or so colleagues up and down the country, are sent 200 window bills and 200 Approximately half the winshowcards. dow bills are burnt, with some difficulty, in our back gardens. The rest go on show windows. We would like to burn them all, or send them to salvage. But we daren't do the former because investigators snoop around. And it might be equally disastrous if salvage were careless with them.—A correspondent in the "New Statesman."

CHEMICAL CONGRESS LECTURE

Abstracts of papers presented before sections of the eleventh Congress of Pure and Applied Chemistry held in London recently

Isotopes in Immunological Reactions.
—Francis and Wormall.—Radio-S used as a tracer in investigations on the action of mustard gas on proteins has made it possible for determinations to be made of the amount of mustard gas (and its derivatives) combining firmly with tissue and other proteins under varying conditions. Other investigations have involved the use of radio-P in immunochemistry.

Metabolism of Toxic Compounds.—
L. Young.—It has become customary to describe as "detoxication reactions" those chemical changes in the body which bring about the conversion of toxic organic compounds of known structure to derivatives which are excreted in the urine. Reactions are frequently classed as detoxications, however, without reference to the relative toxicities of the parent compound and the derivative formed from it in the organism, even though there is evidence that some so-called "detoxication reactions" bring about an increase in toxicity. It is suggested that more caution should be exercised in the use of the term.

Antibiotics from Fusaria. — H. R. V. Arnstein, A. H. Cook, T. H. Farmer and M. S. Lacey.-Under selected culture conditions many species and strains of Fusaria (moulds commonly found on plant material) produce antibiotic metabolism solutions which are effective against Mycobacterium phlei in particular, this organism being a convenient representative of the acidfast bacteria including M. tuberculosis. Chemically and biologically the antibiotics are diverse. They include (i) very complex and unstable substances about which little is known, (ii) relatively simple and stable pigments, and (iii) relatively simple aminoacid derivatives of hitherto unrecognised types. Among the pigments javanicin (I) and oxyjavanicin (II), produced by F. javanicum, are of interest in relation to other natural naphthoquinones, though despite favourable toxicity and in vitro antitubercular tests, they seem of little therapeutic value.

Isotopic Indicators in Blood Studies.—G. von Hevesy.—A change in the concentration of chloride, carbonate, phosphate and several other anions in the blood plasma is soon followed by a corresponding change in the concentration of these ions in the red corpuscles. Even if the concentration

tration remains constant a large part of the ions present at any time in the plasma is soon found in the corpuscles and vice versa. This can be shown by labelling the ions present in the plasma by addition of an isotopic indicator of negligible weight. When radioactive sodium phosphate (Na₂H²PO₄) is added, for example, to human blood kept at 37°, after the lapse of two hours about one half of the ³²P atoms is found in the red corpuscles, indicating a fairly rapid penetration of the phosphate ions through the corpuscle membrane. Determinations can also be carried out by "iron labelled" corpuscles. Radioiron introduced into the organism is incorporated into the corpuscles during their formation in the bone marrow. "Iron labelled" corpuscles represent thus a very different type of tagged erythrocyte. They have the advantage of keeping their label all through the life-time of the corpuscle but have the disadvantage that their application necessitates a blood donor. "Phosphorus labelled" red corpuscles can be produced in vitro and a patient's blood can be re-injected after keeping it for a while after addition of radioactive phosphate at 37°.

A PHARMACIST'S ANTHOLOGY

I FELT an inexpressible relief, a soothing conviction of protection and security, when I knew that there was a stranger in the room, an individual not belonging to Gateshead, and not related to Mrs. Reed . . . I scrutinized the face of the gentleman. I knew him; it was Mr. Lloyd, an apothecary, sometimes called in by Mrs. Reed when the servants were ailing: for herself and the children she employed a physician. "Well, who am I?" he asked.

I pronounced his name, offering him at the same time my hand: he took it, smiling, and saying, "We shall do very well by-and-by." Then he laid me down, and addressing Bessie, charged her to be very careful that I was not disturbed during the night. Having given some further directions, and intimated that he should call again the next day, he departed, to my grief: I felt so sheltered and befriended while he sat in the chair near my pillow; and as he closed the door after him, all the room darkened and my heart again sank.

From "Jane Eyre," by Charlotte Brontë.

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Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire.

VOL. CXLVIII AUGUST 23, 1947 NO. 3522

Apportionment of Value Payments

Many traders who were blitzed out of their previous premises during the war and who then set up in alternative premises elsewhere, may be in doubt as to their position with regard to the value payments which the War Damage Commission will be making in the near future as compensation for war damage.

The sort of position that frequently arises where a trader was bombed out of his trade premises is that the premises were so badly damaged that they had to be left derelict, and the trader accordingly had to find other accommodation. Because of the war damage the trader was relieved from the obligation to repair the premises, and he may, at the same time, have availed himself of his rights under the war damage Acts to disclaim the tenancy.

Now he finds that the War Damage Commission gives its opinion that the bombed premises constitute a total loss, and proposes to make a value instead of "cost-of-works" payment. For such a determination the trader may, indeed, be thankful, for if the Commission had granted a cost-of-works payment he would not have received a penny piece of it and his landlord would have taken the lot. When the Commission makes a "value" payment he is entitled to share in the compensation because of the leasehold interest which he held in the premises at the date of the damage. The fact that he no longer holds any interest in the property makes no difference, since his compensation by way of value payment is divided among the persons who held "proprietary interests" in the premises at the date when the war damage actually occurred.

How then, is the compensation to be divided between the landlord and his trader tenant? Compensation payable by the Commission represents the full amount of the depreciation in the value of the property caused by the war damage, the valuation being made, however, according to prices current at March 1939. the value payment amounts to, say, £3,000, this sum is divided between the landlord and the tenant trader in certain propor-The parties may, of course, leave it to the Commission to fix the proportions, but if they do not want to do so and cannot agree between themselves, they are entitled to have the matter referred to one of the Referees who have been specially constituted for this purpose.

The following is a rough guide for determining the proportions in cases where the tenant has disclaimed his lease under the Landlords and Tenant (War Damage) Acts. It is first necessary to ascertain what price his freehold would have fetched in the open market in the state in which it was immediately before the damage, and subject, of course, to the trader's lease. Let this be called £X. The next step is to ascertain what the freehold would have fetched in the state in which it was after the damage, but with vacant possession (for all practical purposes), and not subject to the tenancy which the trader had. tenancy must be disregarded because it has been surrendered by the disclaimer. the second figure be called £Y.

The amount of the depreciation therefore in the landlord's interest is £X — Y = (say) £2,000. The same procedure is then followed with the tenant's interest. Its value in the open market immediately before the damage is ascertained to be, say, £M.

Its value immediately after the damage is ascertained. Because of the disclaimer and surrender, the tenant's interest must be regarded as coming to an end immediately, the value of the interest immediately after the damage would be practically nil. Therefore the amount of the depreciation in the value of the tenant's

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interest would be £M — nil = £M, (say £1,000). The whole of the value payment accordingly must be divided in the proportion of 2 to 1. The landlord would get $\frac{2}{3}$ of £3,000 = £2,000 and the tenant would get $\frac{1}{3}$ of £3,000 = £1,000.

It is perhaps unnecessary to add that tenants who disclaimed and surrendered their tenancies because of the war damage stand to gain since the after-war-damage values of his interest must necessarily have been reduced by virtue of such disclaimer to nil, thus increasing the amount of the depreciation in the value of their interests, and incidentally, the proportion of the value payment to which they are entitled.

Hospital Radiochemical Laboratories

THE news that a small atomic pile at Harwell, nr. Didcot, Berks, went into action for the first time during the past week (see p. 213) means that the first trickle of British-produced radioactive materials for biological and medical research has begun. As the pile, known as Gleep (graphite low energy experimental pile), was built primarily for research in nuclear physics, it will be necessary to wait for the production of larger quantities of British materials until 1948, when a more powerful pile will Certain hospitals come into operation. which wish to give treatment with particularly large doses of ∝ or y rays may already be contemplating the installation of special laboratories for handling these drugs. Though it cannot yet be clear who will be called upon to work in the laboratories, the technical staff may well include pharmacists with special training.

The design of the laboratory will be based, no doubt, on that of radiochemical laboratories used in atomic-energy stations. Such a design was demonstrated with a model to the International Chemical Congress held recently in London. In many ways the construction of a radiochemical laboratory resembles that of an ultra sterile-room. All processes are conducted in work-cupboards (resembling fume-cupboards) which are equipped with windows fitted at an angle, like certain shop windows, to prevent reflections.

A special feature of the laboratory is the size of the ventilating system which, in atomic-energy stations at least, calls for air ducts built above the laboratory and occupying about twice the space of the laboratory itself. Air is drawn through the work-cupboards at a minimum rate of 100 linear feet per minute, and the streamlining of the interior of the cupboards, and the efficiency of the ventilation system is tested before use by a smoke bomb.

Precautions Taken

Precautions, forming a "monitoring system," against over-exposure to radiations occupy an important part in the laboratory routine. Workers on entering or leaving the laboratory submit to "personal monitoring" of the hands, feet and clothes. to detect possible contamination, while installed inside the laboratory are Geiger-Müller counter devices which (a) constantly measure the radiation of the room. (b) ring an alarm if the radiation exceeds a given amount, and (c) constantly advance a slave-clock in proportion to the intensity of the radiation, to indicate to the workers when they have received the maximum permitted exposure.

While the total number of workers likely to be engaged in hospital radio-chemical laboratories will probably be small, it is possible that the study of the basic principles of the structure of these laboratories will be included before many years in the pharmaceutical syllabus.

British Brush Exports

THE report of the executive committee of the Brush Export Group for the year ended May 31, reflects considerable success on the part of the industry in its efforts to increase exports of British-made brushes during 1946. The details of shipments of the various kinds of brushes of this somewhat heterogeneous class of goods show that the three types of brush connected with the drug trade continued to hold a leading position in the industry. The value of exports of all classes of brushes, ranging from those used for domestic and industrial purposes down to the personal articles, in 1946 was £1,501,031, against £411,302 in 1945 and £389,904 in 1938. Of these aggregates the

shipment values of shaving brushes was £168,700 in 1946, £9,071 in 1945, and £2,301 in 1938; tooth-brushes, £248,860 in 1946, £50,205 in 1945, and £17,268 in 1938, and other toilet brushes (not including those in made-up toilet sets), £272,732 in 1946, £19,582 in 1945, and £5,415 in 1938. The combined value of exports in 1946 of these drug trade brushes, £690,300, when compared with the 1945 total of £78.858 and only £24,984 in 1938, is good evidence that British-made brushes, both of nylon and natural bristle, have on their quality, presentation, and competitive price, obtained a premier position in the world's markets. Besides details of export values, the report under review contains a good deal of other information on such matters as export promotion, advantages of export business, overseas market information, publicity, exhibitions and fairs, regulations of overseas governments and raw materials. The results of the year's working redound great credit on the industry and the report, as a whole, is in keeping with the lively activities of this export group.

Shopping for Pleasure

A NEW and enlarged edition of a report on the planning of shopping areas, prepared originally in 1944 by the Retailers' Advisory Committee on Town Planning, has recently been published (National Chamber of Trade, 3 Victoria Street, London, S.W.1, price sixpence). The committee was formed at the suggestion of the Ministry of Town and Country Planning, and consisted of representatives of four broad types of retail distribution: Independent traders, department stores, multiple shops and co-operative societies. Pharmacy was directly represented by Mr. G. A. Mallinson (secretary, National Pharmaceutical Union).

The main principle which guided the committee in compiling its report may be deduced from the words "... for the bulk of the population, personal shopping is, in itself, a pleasurable activity, for which town planning should provide just as much as for distribution in its purely economic aspect." The suggestions put forward are aimed at affording not only the maximum convenience to the public, but also at pro-

viding a lively and friendly shopping atmosphere. The practice of allowing shops to straggle along main roads, or to be situated in splendid isolation at the corners of residential streets, is condemned. Shops should be located together in compact groups, says the report, every town having a main shopping centre and larger towns having a number of subsidiary centres.

Continuous Frontage

Both sides of a street in a shopping centre of the type envisaged in the report would present a continuous frontage of shops, all with display windows for retail sales. Civic buildings, and premises for such business activities as banking, insurance or wholesale trading, would be located in separate but adjacent centres of their own, to avoid any breaks in the continuity of display windows. Different trades and different types of traders would intermingle freely The appearance of the as they desired. actual buildings would be the product of co-operation between planning authorities, architects and owners. Designed as a whole to present a harmonious though not necessarily uniform facade, the appearance of the shop buildings above the facia line would be considered an amenity of the street itself and conflicting advertisements and signs, a disfiguring feature of so many shopping streets today, would be prohibited above the facia line. The facia and the shop front itself would be the concern of the individual retailer who would be free to choose his own design.

Arcades, or glass canopies built above pavements, are not recommended. Shops on each side of the street, it is urged, should be provided with service roads at the rear so that the shopping street itself need not be encumbered with outward and inward delivery traffic; problems of traffic control are dealt with in some detail.

It will be many years, no doubt, before the recommendations of the committee can be carried out on any wide scale, but the care and thought which have evidently been devoted to the report should do much to ensure that the shopping centre of the future will be an attractive and lively place, well suited to the conduct of "a pleasurable activity." 228



THE ELECTRON MICROSCOPE

An outline of the structure and achievements of a microscope which has increased magnification some forty-fold above the previous limit

M ORE than seventy years ago, Ernst Abbé, an optician who devoted his life to perfecting the optical microscope, discovered the theoretical limit of magnification of that instrument. No objective, he found, would resolve details finer than about one-half of the wave-length of light in the medium in which the object was embedded. His discovery depressed him, and "It is poor comfort," he remarked, "to hope that human ingenuity will find means and ways to overcome this limit."

First hope of overcoming the limit emerged in 1912 when the wave nature of x-rays was discovered. While the wavelength of the rays was sufficiently short and the penetration adequate, it was not possible to make x-ray lenses and, although a lens-like effect might have been produced by reflecting elements, an x-ray microscope

never materialised.

The way to ultra-optical magnification was opened by three workers during the years 1924-26:- de Broglie, who first suggested during this period that electrons behaved like waves; Schrödinger, who discovered wave mechanism, and Busch, who discovered how electric or magnetic fields could be used as electron lenses. The electron microscope, which resulted, resembles in structure the compound optical microscope, except that electron beams replace light, and magnetic lens systems replace the glass lens systems of the optical instruments.

The compound optical microscope is a development of the simple microscope, which, as an aid to the eye in seeing detail, has been used by workers for centuries. Two factors limit the unaided eye in seeing detail. One is the inability of the eye to focus on objects which are too close. Objects appear to grow in size as they come closer to the eye, so that more detail is seen, but when the objects are closer than about 10-14 in., detail begins to be lost through the eye's inability to focus. The distance at which the maximum detail can be seen is called the least distance of distinct vision. second limitation arises from the cell structure of the retina, for if two points in an

Opposite: Micrograph of Aerobacterium cloacæ (x 54,000) taken with an electron microscope. At this magnification long bacterial flagellæ are visible.

object observed at the least distance of distinct vision are less than 0.1 mm, apart (i.e., if the angle subtended by these at the eye is less than about 1.4 minutes) they appear as one: they are not resolved.

Simple Microscope

If a lens is placed close to the eye, it bends the light rays coming from any object placed within the focal length, and the rays then appear to come from the enlarged

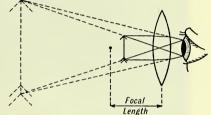


Fig 1

image (see fig. 1), and the arrangement is called a simple microscope. Too small a focal length cramps the working space, and the practical limit for a simple microscope is a focal length of about 10 mm. This gives a magnification of about twenty-five diameters. For greater resolving powers, two stages of magnification are required, a process which is achieved in the compound microscope. In this instrument

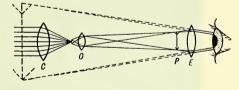
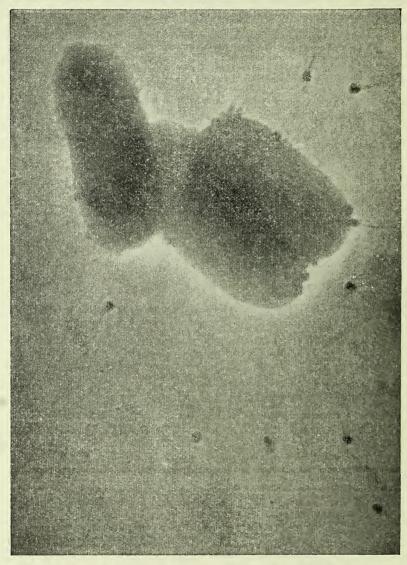


Fig. 2

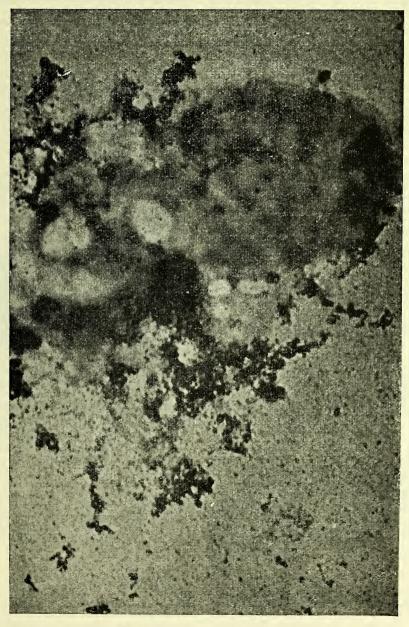
a lens, or lens system, called the objective (fig. 2, O), is used to throw an enlarged image of the object just within the focus of another lens-system (called the eyepiece, E) at P. The eyepiece functions as a simple microscope and magnifies the image, so providing the second stage of magnification (see broken arrow). If the objective magnifies ten times, and the eyepiece another ten times, the total magnification given by the compound microscope will be one hundred. The image seen by the eye

Bacteriophages commence attack on cells of Escherichia coli (Magnification x 25,000)



Bacteriophage anti-coli P.C. particles are seen swimming towards Escherichia coli cells. A particle's "head" is about 800 Angstrom units $(0.08\,\mu)$ in diameter, and the "tail" about 1,300 A.U. in length. One particle of phage is sufficient to originate the lysis of a bacterial cell, and during the lysis an average of some hundred new phage particles is generated. The bacteriophages shown above were immobilised by drying five minutes after a suspension of the bacteria had been injected with a little bacteriophage suspension. Bacteriophage anti-coli P.C. is the largest of the three strains of bacteriophage which have so far been identified with the use of the electron microscope.

Destruction of Escherichia coli cells is completed (Magnification x 35,000)



After thirty minutes action the bacteriophages have effected the complete lysis of the bacterial cells, as shown above.

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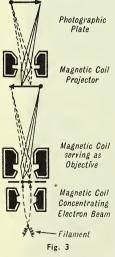
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tends, however, to be dim, partly because the amount of light illuminating the object is spread over the enlarged image, and partly because losses of light occur through the incomplete transparency of the lens glass. To obviate dimness so far as possible, a condenser system (C) is usually incorporated to collect light and concentrate it on the object. The practical upper limit of magnification in visible light, using well-stained materials and an oil-immersion objective, is from x 1,200-1,800 (or x 5,000 for metallurgical materials with exceptional contrast). The use of ultra-violet light, quartz-lenzes and special techniques can increase magnification a little.

Electron Microscope

The length of electron waves varies with the speed of the electron, but the wavelength of even a slowly moving electron is about 1/10,000,000 mm., so that with suitable focusing- or lens-devices, resolving powers of this order are theoretically possible. The fact that an electron, which carries a negative electric charge, may be influenced in its course by electric or magnetic fields has enabled magnetic and electro-static electron lenses to be made. With the magnetic electron lens, the most successful type, the electrons come to a focus along a helical path.



The energy source of the electron microscope is a beam of electrons moving at uniform speed. This is produced by an electron gun, which consists of a filament (see fig. 3), and an anode accelerator at a high After potential. leaving the gun the beam passes into the magnetic field of the condenser lens which converges the beam to a small area in the plane of the object. The electrons are

scattered by the object, and the scattered particles then pass through the magnetic coil serving as the objective lens and are focused by its magnetic field as a primary magnified image. For convenience in operation this image is made to fall on a fluorescent screen which may be examined through a port-hole. Electrons from any desired part of the image are then directed through an opening in the screen into the magnetic projector lens, which focuses them as a magnified image of the selected part of the primary image, on a second fluorescent screen. For taking a photograph of the image, a photographic plate may be substituted for the fluorescent screen.

As the movement of electrons is stopped by air, the body of the electron microscope has to be evacuated. Air locks are provided to enable specimens or photographic plates to be placed in position without necessitating the re-evacuation of the whole instrument. The high voltage potential necessary for the electron gun is produced by the use of some fifty radio valves. Specimens have to be examined dry and this may limit to some extent the usefulness of the instrument.

Preparation of Specimens

The preparation of specimens is simpler than that for the optical microscope in so far as no staining is necessary. In the first stage, a drop of collodion solution is placed on a water surface. This spreads rapidly, and after the solvent has evaporated a solid film of about 100 A.U. thickness will float on the water. A small circular disc of fine wire is placed on the collodion film and pressed down so that it adheres. The mesh with the film adhering is then dried, and a drop of the solution or suspension to be examined is applied. The mesh with the preparate is then placed in a cartridge and is loaded into the object chamber of the microscope. This routine can be followed in the investigation of bacteria and viruses, but other objects require special techniques.

The limiting factor in the resolving power of the electron microscope is the distortion which arises from imperfections in the magnetic lenses. The maximum useful magnification obtained at present is about x 20,000. The electron microscope pictures, however, often permit enlarging up to x 100,000 in order to display all the detail in the original picture.

Achievements

The electron microscope has been used with success in the study of bacteria and viruses; the structure of molecules; the medical aspect of dusts, such as carbon black and silica; the structure of photographic

emulsions; and in metallurgical problems. The influenza virus was discovered in 1943, by Chambers and Henle, with the help of an electron microscope and during the years 1940-42 Luria, Anderson and others produced a striking proof of the existence of bacteriophages — ultramicroscopic living



A New British Electron Microscope
Photograph of an instrument made by Metropolitan
Vickers Co., Ltd., Manchester. Near the base of the
column image-viewing windows may be seen. In the
background are the control panel and radio-valve
containing-cabinet.

organisms, parasitic on bacteria and capable of reproduction. These organisms are visible on the electron micrograph obtained by two of these workers and reproduced on p. 230. The complete lysis of bacterial cells after thirty minutes action by the bacteriophages is shown in the electron micrograph on p. 231.

The use of this type of microscope in bacteriology is further illustrated by the electron micrograph (see p. 228) of cells of Aerobacterium cloacæ, one of the bacilli composing the flora of the lower intestine (magnification x54,000), showing long bac-

terial flagellæ.

Future Development

The development of the electron microscope is likely to proceed in two general directions, one aiming towards a simple and powerful instrument which would be useful, and possibly indispensable in the routine tests on virus diseases and similar problems. The second following perhaps Abbé's steps, will aim at reducing the resolution limit considerably below 20 A.U., and so creating a new tool for fundamental investigations in physics, chemistry and biology.

Micrographs reproduced by courtesy of "Electronic Engineering"; photograph of electron microscope by courtesy of Thos. Firth & John Brown, Ltd.

RECENT RESEARCH

Density of DDT Aerosols.—Apparatus for accurately measuring the viscosity and specific gravity of aerosol solutions containing liquefied gases are described by Goodhue and Hazen in "Analytical Chemistry" (April, p. 248). In the viscosity apparatus, which embodies the pipette principle, dichlorodifluoromethane is used as the reference liquid.

Antibiotic Against Cancer-cells.—Kidd, Cornell University ("Science," May 16, p. 511) has isolated from the culture-filtrates of the mould Aspergillus fumigatus a crystalline substance which, in vitro, is highly active against the cells of certain animal tumours. The substance is possibly identical with gliotoxin, a compound showing similar in vitro activity. The original strain of A. fumigatus used (designated A.21) was obtained from the air of an animal room, but other strains have provided filtrates with little or no activity. Potent culture-filtrates of A.21 strain inhibit tumour cells in a few minutes at room temperature.

Wax Saponification-value. — As the normal methods of determining the saponification-value of natural waxes, using alcoholic potassium hydroxide and varying reflux periods, have given "unsatisfactory end points", Knight ("Analytical Chemistry," May, p. 359) has investigated the use of carbitol (diethyleneglycolmonoethylether) as solvent of the potassium hydroxide. When the substance was used alone there was a tendency to develop colour after refluxing, but when it was mixed with alcohol, the results obtained were "markedly more consistent than those obtained by other processes". The end-point was easily distinguished.

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PHARMACEUTICAL SOCIETY OF IRELAND

Mr. J. J. R. Kerr and his Successor

MR. J. J. R. KERR, P.C., M.P.S.I., who has relinquished his post as registrar of the Pharmaceutical Society of Ireland after over eighteen years' service, takes with him, writes a correspondent, "the best wishes of pharmacists and students from all parts of Ireland that he may enjoy many years of health and happiness in his retirement." Mr. Kerr became associated with pharmacy first in Belfast, and later had his own pharmacy in Clones, when he was a member of the Council of the Society. Later

MR. J. G. COLEMAN, P.C., M.P.S.I., who is to take up duty as registrar of the Pharmaceutical Society of Ireland on September I (see C. & D., June 21, p. 714), has had experience in many sections of the profession. Educated at the Christian Brothers' Schools, Nenagh, co. Tipperary, and Mount St. Joseph's College, Roscrea, which he represented at Croke Park in Gaelic athletic events, Mr. Coleman entered pharmacy in 1929, serving his apprenticeship with Mr. P. J. Lalor,



The retiring Registrar of the Pharmaceutical Society of Ireland, Mr. J. J. R. Kerr (left) and his successor, Mr. J. G. Coleman, who takes up his new duties on September 1.



he was asked to accept the registrarship of the Society. Few people in Ireland today are better versed in poisons law, and in recent years he has given a series of lectures on the subject to students. Mr. Kerr has always been a keen craftsman in woodwork and cabinet-making, and has taken an interest in historical and archæological subjects, particularly those allied to his own profession. During recent years he has delivered a number of lectures to the Old Dublin Society. Photography and cinematography are other hobbies of his. He is one of the most distinguished Irish Brancardiers at Lourdes, for which he has merited a special award. The war interrupted his work in this sphere, but immediately travel facilities were available again Mr. Kerr was at work, and within the past few weeks organised and led an Irish pharmaceutical pilgrimage to Lourdes, Although Mr. Kerr is severing his official link with the Council and the Society, his experience and knowledge will continue to be placed at the Council's disposal.

M.P.S.I., Monasterevan. Later he served with Evans & Co., St. Stephen's Green, Dublin, and with Mr. E. MacManus, at Dolphin's Barn, and Chapelizod. In 1934 Mr. Coleman joined the staff of A. de St. Dalmas & Co., Ltd., working at first in the drug department, and later being promoted in charge of the packed goods department. Later he was placed in charge of the laboratory of the newly formed St. Dalmas (Ireland), Ltd. From the days of his apprenticeship Mr. Coleman has been interested in optics, and has taken the diploma in optometry of the Association of Ophthalmic Opticians in Ireland. In 1942 he was appointed a part-time teacher of physics and physiological optics in the Institute of Science and Technology, Dublin, and in 1943 was made secretary and director of examinations to the Association of Ophthalmic Opticians, Ireland. He was appointed as the Association's representative on the Vocational Education Committee and editor of "Optical Notes," the Association's paper.

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CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

Common Law Liabilities

SIR. - You are to be congratulated on your leader (p. 201) dealing in brief with common law liabilities of occupiers of pre-Although the pharmacist takes a course in forensic pharmacy he often enters his business life unaware of the legal rules of tort and contract that affect him to so great a degree. The trend is to professionalism and away from the idea of the shopman of old, so we are as unlikely to see the examination syllabus contain the more general rules of law as we are to see included such subjects as book-keeping and commercial practice. It is therefore a good thing when a trade journal contains timely and useful information on such of the commercial and common law as affects the chemist in his daily work.

Yours faithfully, CHARLES STEVENS, Ll.B. (Lond.), Halifax. M.P.S., F.N.A.O.

"Discredited Drugs"

SIR,-I should like to be permitted to pay a modest tribute to Xrayser, whose page is ever that to which I first turn, for his courage in raising the point that quinine may now be no longer worthy of the esteem in which it was formerly held. Of course it is not. I can envisage no pathological condition in which it is useful, tasteful or conducive to any pharmacodynamical desideratum. It is revoltingly bitter; it is pharmaceutically recalcitrant, and, except for the ammoniacal solution, it requires, in a mixture, an acid medium. Its antimalarial quality is transcended by a host of alternative remedies. There are better antipyretics. It is contraindicated in middle ear disease and in gastro-enteritis

Xrayser, however, need not have confined his philosophical observations to this medicament. Lengthy is the list of discarded preparations and discredited drugs. Many modern results of chemists' and biologists' endeavours supercede the empirical and ephemeral products of an era now merging into the historical. Yet many preparations manifest a persistence in survival which, indeed, indicates inherent virtue. The tannin-bearing gentian should yield permanent place to quassia or calumba. Sulphur achieves nothing internally or in an unguent. Many calcium salts, such as the lactate, are useless. Intestinally

they may form obstructive concretions. Vitamin D tablets in massive dosage are excellent in chilblain treatment and prophylaxis. Lime water impedes rather than contributes to the growth of bone. gluconate is indicated as an adjunct to hæmostatic medication by injection. The pharmacopæia is in process of radical revolution. Within a generation the armamentarium of medicine will bear faint resemblance to that with which we are now afflicted. Biology, chemistry and physics are equally ancillary to the practice of medicine and surgery. A dozen or more mixtures must deservedly endure-but even the much-vaunted and formerly indispensable mercury recedes before the exhibition of penicillin in neisserian infection. It is possible to multiply these instances almost The problem, or rather its limitlessly. solution, which must soon occupy those authorities in our profession who determine its curriculum, is to cope with this gradually hastening change in modern methods. Much useless, vexatious and protracted effort will be saved in emancipating the pharmaceutical student from the shackles of an expiring art which is "such an un-conscionable time dying," but at whose final obsequies some of us may live to assist. His enthusiasm, vigour, desire for scientific adventure and restlessness in research will find wider scope in new fields of exploration where theory is translated into effect or conjecture transmuted into fact.

"Tempora mutantur, nos et mutamur in illis."

Yours faithfully, JOHN SHIEL, L.R.C.P., L.R.C.S., L.M., Ph.C., Dublin. Barrister-at-Law.

COMING EVENTS

Thursday, August 28

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION. Visit to works of Bob Martin, Ltd., Southport. Applications to Mr. R. G. Collins (secretary), 53 Christchurch Road, Oxton (Telephone: Birkenhead 678).

THE NATIONAL CHAMBER OF TRADE (AREA GOUNCIL FOR WALES) is meeting at Bangor on September 17. Pharmacists in North Wales may attend the general sessions (11.30 a.m.-1 p.m., and 2.30-5 p.m.) and the delegates' tea at 5 p.m., on application to Mr. Eirwyn Owen, M.P.S. (chairman, Bangor chamber of commerce), 345 High Street, Bangor.

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BUSINESS QUERIES AND ANSWERS

Subscribers are invited to address inquiries to the Editor on problems of management. accounts, stock-keeping, taxation. To ensure that no information of a confidential nature is disclosed to a competitor, replies will be given under initials or a pseudonym. If it is necessary to forward documents, copies only and not originals should be sent.

"Yield" Explained

I should like to know what is meant by the term 'yield' as applied to a fixed-interest bearing investment, and how the

yield is arrived at."-M.N.

The term "yield" signifies the percentage return to an investor calculated on the basis of a particular price. To ascertain the yield, multiply the nominal or par value by the rate of dividend or interest, and then divide by the market price. For example, if the market value price of a 34 per cent. stock is 135, the actual yield at that price would be 100 multiplied by 34 divided by 135, or 2.77 per cent. If the price was 75, the yield would be 5 per cent.

Revaluation of Assets

"My accountant has advised me to have my assets revalued by an expert. I should like to know what benefit this would be."-S.P.

Several advantages may result from revaluation of business assets by a valuer of repute. Claims in such matters as income tax and insurances are more likely to succeed if values have been independently computed. Partnership deeds and working agreements can also be drawn up in more specific terms. A certificate of value signed by an acknowledged expert is sometimes the means whereby a guarantee for a bank overdraft can be furnished, while with a limited liability company, additional issues of capital, in the form of shares or debentures, may be facilitated. Pro-prietors, also are relieved from the necessity of certifying values.

Branch Account in Head Office

"The pharmacist in charge of our branch has sent in a trial balance, and we desire to make up the branch account in our head office books. Could you assist us by indicating the main items usually shown in

such accounts."—V.L.

In the head office books, it will be necessary to compile a branch trading account and a branch profit and loss account, the former showing on the credit side the value of the branch sales for the period and the value of the closing stocks, and on the debit side the opening stocks, trade pur-chases, and carriage inwards charges. The amount by which the total of the credit side of the branch trading account exceeds the debit total should appear as a credit item in the branch profit and loss account. against which should be debited the various expenses as shown on the trial balance.

Receipts for Cash

"I have usually receipted customers' statements on settlement of their accounts, but would prefer to adopt a more uniform method of receipts for cash. Can you suggest anything suitable from the view-point of internal check?"—L.C.T.

Whether a remittance from a customer is in the form of a cheque, notes, postal order or coin, an official receipt should be given either from a counterfoil book or from a duplicate book. These can be kept on the pen or the pencil carbon-copy principle, the records made on the counterfoils or carbon copies constituting the foundation for the entries to be made on the debit or receipts side of the cash book. If the copies or counterfoils are numbered in rotation and the numbers inserted against the cash book entries, future references will be facilitated and delay in balancing avoided.

Orders Taken by Other Departments

"In a business such as ours, orders are frequently taken by one department for another. A little expert advice regarding procedure in such cases would be wel-comed by us."—I. & L.

Orders taken by one department for another department should be given over without delay for entry in a rough order book from which sheets can be made out for transfer to the despatch room. Later the invoices will be made out and forwarded to the customers, and some businesses avoid numerous writings for one order by using two or more invoice books comprising, say, a white original, a yellow duplicate and a pink triplicate. original can be suitably printed, but the copies need be only plain sheets, and when a sufficient number of orders have to be dealt with the book can be sent to the despatch room while another invoice book is being entered up.

OVERSEAS TRADE NEWS

Tunis Olive Crop. — The 1947 Tunis olive crop is expected to show a loss. Weather conditions in the Sfax area have been so bad that the crop is expected to be insignificant there. In other areas an average yield is expected.

Mexico Cuts Luxury Imports.—Heavy losses of dollar exchange are responsible for the recent decision of the Mexican Government to prohibit the importation of "luxury" articles, including cosmetics and perfumes, after October 15.

Geylon's Cinnamon Bark Oil Exports.— Total shipments of cinnamon bark oil from Ceylon during the first quarter of 1947 were valued at 35,950 rupees, compared with 34,094 rupees in the preceeding three months. The bulk of the exports went to the United States.

Hanover Trade Fair.—The first export trade fair for the display of goods produced in the joint U.S. and U.K. zones of occupation in Germany is being staged at Laatzen, near Hanover, from August 18 to September 7, 1947. Pharmaceutical products, dyestuffs and chemicals, medical, surgical and optical instruments and appliances are included in the exhibits. The Joint Export-Import Agency and the Board of Trade Purchasing Agency have established a bureau at the Fair to give advice to British visitors on the handling of contracts.

Freeing of German Foreign Trade.—German exporters are now able to negotiate themselves with their foreign customers abouts prices of their goods. According to reports from Wiesbaden, a total of export contracts to the value of \$405,102 were concluded during a recent two weeks between Hessian firms and nine buyer nations through the Joint Export Import Agency. Principal U.S. orders consisted of dyestuffs and cameras. Further optical material to the value of \$39,002 was exported to Argentina, while Britain received chemicals to the value of \$28,080, and Norway, dyestuffs to the value of \$12,140.

Kenya's Pyrethrum Exports.—Pyrethrum, grown in the Kenya highlands, is an East African export which has shown a remarkable expansion during the last ten years. In 1936 total exports of the product amounted to £48,000, compared with £1,157,229 in 1946 when the quantity shipped amounted to 180,043 cwt. Recent

deliveries in Kenya have shown a sharp rise and comparative figures for the first six months of 1946 and 1947 show an increase for the latter period of nearly 200 tons. It is understood that growers are anxious regarding the future of pyrethrum and are reducing their acreages, retaining only the best high-toxic plants, fearing a decline in market prices.

Cinchona Development in Costa Rica.— Plans for the development of the United States Government cinchona plantation at Isla Bonita, Costa Rica, depend on the future outlook for quinine and other cinchona alkaloids in the face of increasing competition from synthetic drugs. The plantation was not intended to be a commercial enterprise, but rather "a reservoir of proved cinchona plant material" which could be utilised in efforts to reintroduce the cinchona species into the Western hemisphere and also to serve as an example to prospective growers. Strains of C. ledgeriana, largely utilised in East Indian cinchona production are difficult to adapt to new surroundings and the seeds used in the Costa Rica experiment were unavoidably mixed and crossed to some extent. In addition to the Government plantation, a large American drug firm maintains about 500 acres of cinchona in Costa Rica, planted at about the same time.

U.S. Medicinal Exports.—U.S. experts are of the opinion that exports of medicinals will reach a value of \$180,000,000 in 1947, against a pre-war annual average of \$18,000,000. A breakdown of total U.S. medicinal exports in 1946, amounting to \$144 500,000, reveals that such exports can be divided into five main groups, four of which, of an approximate value each of \$26,000,000, are proprietary remedies, vitamins, "prescription medicinals" and antibiotics (chiefly penicillin). The fifth and largest group of exports, which reached a value of \$36,000,000 in 1946, is made up of druggists' preparations. U.S. exporters pin great hopes on the future of the European market, although sales declined from \$30,000,000 to \$26,000,000 in 1946. The larger number of customers and more even distribution among individual markets is considered encouraging. France, which before the war, imported scarcely any medicinal products from the United States, took about \$6,000,000 worth of U.S. goods in 1946, to become the largest single customer of the U.S. in Europe.

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TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, August 20

IN Pharmaceutical and Fine Chemicals the week has been rather quiet. The most important change is in Mercurials which have been reduced in price from August 18. There has been some inquiry for Amidopyrine and Phenazone and both products are very firm. In the Coal-tar Derivatives demand continues very heavy with little possibility of an improvement in supplies for some months; exports of these products are strictly limited to one-third of total production. The control of exports of coal-tar products is due to be lifted at the end of September but it is probable that the restrictions will be continued after that date. An upward trend is showing in the prices in the primary market of Phthallic acid esternia applications in the plastics industry are also in demand at the present time as insect repellants.

Crude Drugs

The seasonal lull in activity in Crude Drugs, plus the uncertainty as to the future position of many commodities, have been responsible for yet another quiet week in the London market. American items have attracted buyers but little business has been done in the absence of supplies. Hydrastis and Lobelia herr are two such items; arrivals of parcels are awaited with some interest. A fair spot business has been done in Cascara sagrada and prices are lower. Reports state that supplies at source of Nicaraguan Ipecacuanha, are small and shipment quotations have strengthened. Menthol is fairly steady with a small business transacted. The obsolete Order (S.R. & O., 1943, No. 1285) controlling the price of natural menthol has been revoked. The European combine has reduced the price of Mercury and the United Kingdom selling price is now £16 per flask. Collectors of Senega are slow in bringing in supplies and there are no offers for shipment from the United States; the seems evident that a small crop is all that can be expected. Dar-es-Salaam and Lindi Bees' wax are nominal. Forward prices of Candellila and Carnauba waxes have strengthened. The Shellac market is steady with F.O.T.N., pure, spot, quoted at 260s. per cwt., ex warehouse.

Essential and Expressed Oils

There has been a fair inquiry for ESSENTIAL OILS; prices on the whole are steady but Ceylon CITRONELLA and West Indian LIME show an easy tendency. CORIANDER is still in difficult supply.

ALMOND OIL, B.P., has been in demand; supplies are rather tight and prices firm,

U.S. Drug and Chemical Report New York, August 15

SALES of non-proprietary medicinal products are expected to show an even better return over the last half of 1947 than in the first. Both domestic and foreign demand has been good, manufacturers reporting that they have so far been unable to meet all enquiries from overseas. The price of crude GLYCERIN is still too high in comparison with the quotation for the refined. METHYL ALCOHOL continues in short supply. Competitive conditions continue in PENICILLIN; output of the drug and its salts declined to just under 2,500,000 million Oxford units in May from the 2,796,000 million produced in the previous month. This is generally attributed to the fact that some makers changed from production of the amorphous type to the crystalline type of drug.

of drug.

The demand for Crude Drugs continues at a very low level generally. Overseas enquiries are also very limited, with what demand there is, centred in such items as WILD CHERRY BARK, IPECACUANHA ROOT and WHITE PINE. This year's crop of the last named material is not expected to be more than one half of last year's output.

Little activity is reported in Menthol and the current quotation of \$8 per lb. might be shaded on the placing of a substantial order. Reports of further quantities afloat from Brazil have had an unsettling influence on the markets here. The most recent Chinese offerings worked out to \$8.15 per lb. after payment of duty. Moderately good supplies of regular grade medicinal Cod-Liver oil are reported offered but high-potency material is difficult to locate in good quantities.

cult to locate in good quantities.

The reversal of the downward trend in ANISEED, CLOVE, BERGAMOT, Italian LEMON and certain types of ORANGE OILS has continued and a better demand for ESSENTIAL OILS and AROMATIC CHEMICALS generally is reported. The quotation for SPEARMINT OILS has again declined and now \$1.00 to \$1.

Pharmaceutical Chemicals

ACETANILIDE.—Makers' quotations for 1-cwt. lots in kegs are at 2s. 5d. per lb. for crystals and 2s. 6d. per lb. for powder.

Adrenatine.—Makers' prices for the synthetic are as follows: 100 gm., 2s. 9d. per gm.; 250 gm., 2s. 6d.; 500 gm., 2s. 2d.; 1,000 gm., 1s. 11d. Onotations for the natural are at from 5s. 6d. to 6s. per gm., according to quantity.

Allobarbitone.—Current price for 10-kilo lots is 90s. per kilo; smaller quantities are quoted at 99s. per kilo.

AMIDOPYRINE.—Firm. Quotations are eld at from 53s. to 63s. per lb.

AMPHETAMINE.—Prices for the Base and ULPHATE are from 150s. to 160s. per lb., as a quantity.

ANETHOLE.—Quotations for material preared from star anise oil are from 16s. to 6s. 6d. per lb.

ASCORBIC ACID.—Current quotations are t from £23 10s. per kilo, upwards.

ASPIRIN.—Makers' prices per lb., for bowder (containers in brackets), are as ollows: 28 lb. and under 1 cwt., 4s. 4½d. (1-lb.), 4s. 3½d. (2-lb.), 4s. 3d. (4-lb.), 4s. 2d. (7-lb.), 4s. 1½d. (14-lb.), 4s. 0½d. (28-lb.). Net one month.

BENZYL BENZOATE. — B.P. quality is nuoted from 4s. 6d. to 5s, per lb., according quantity; perfumers' quality, 5s. to ps. 6d. per lb.

Bromine compounds.—Current prices per lb. are as follows: Bromoform, B.P.C., 12s. 9d.; Cadmium, crystals, 13s.; Calcium, 4s. 10d.; Ethyl, 9s. 6d.; Lithium, 11s. 9d.; Hydrobromic acid, B.P.C., 6 Winchester quarts, 2s. 3d., and smaller quantities, 3s. 1d.; Dilute acid, B.P., 3 Winchester quarts, 1s. 4d.; Concentrated 40 per cent., 5 Winchester quarts, 2s. 5½d., and smalls, 3. 3½d.; Concentrated, 50 per cent., 6 Winchester quarts, 3s. 1½d., smalls, 3s. 11½d.

Mercury salts.—Makers have reduced prices. New rates per lb., from August 18, are as follows: Ammonium Chloride, B.P., powder, 9s. 5d.; lump, 9s. 3d. Bichloride, B.P., powder, 8s. 1d.; lump or granular, Ss. 8d. Mercurous chloride, B.P., 9s. 4d. Red oxide, B.P.C., 10s. Yellow oxide, B.P., 10s. 7-lb. lots are 6d. per lb. less than above prices.

METHYL SALIOYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

STRYCHNINE.—Makers' current rates per oz. are as follows:—

Compound	Under 25 oz.	25 oz. and under 100 oz.	and under
Alkaloid Bisulphate Hydrochloride Hypophosphite Nitrate Sulphate	s. d. 6 2 5 4 5 11 9 8 5 11	s. d. 6 o 5 2 5 9 9 6 5 9	s. d. 5 10 1 5 0 1 5 7 1 9 4 1 5 7 2
(neutral pow- der No. 2) Sulphate	4 11	4 9	4 71/2
(neutral crys- tal and pow- der)	5 6	5 4	5 21/2

SULPHANILAMIDE.—Large quantities are quoted at 5s. 9d. per lb. upwards; smaller quantities are at 7s. to 7s. 6d. per lb., according to pack.

Crude Drugs

Aloes.—Cape, on the spot, is quoted at 180s. to 185s. per cwt. packed in boxes; shipment is easier at 155s., c.i.f. Curaçao, in boxes, is quoted at 235s., spot; forward, 215s. to 220s., c.i.f. Socotrine is quoted at 156s. to 190s. per cwt., according to quality.

ANISE (STAR).—Supplies on the spot are offered at 130s. per cwt.; forward, 95s.,

Areca nuts.—Quiet. Ceylon is offered at 65s. to 67s. 6d. per cwt., according to holder.

ASAFETIDA.—Spot supplies of block are quoted at £25 to £28 per cwt., according to quality and seller.

BALSAMS.—Canada, on the spot is quoted at 16s. per lb. Pará Copaiba, spot, is quoted at 8s. per lb. for soluble and 7s. 3d. for insoluble. Peru is available at 7s. 3d. per lb., duty paid. Tolu is steady at 18s. per lb., spot.

Belladonna.—Spot. Root with a test of 0.515 per cent. is offered at 6s. per lb.; English herb (cut) is available at 6s.

Benzoin.—Sumatra, in fair supply, is available on the spot at from £17 10s. to £22 per ewt., according to quality.

BISMUTH.—Current price for high-grade metal is 10s. per lb., in 5-cwt. parcels.

Buchu.—New-crop short rounds, steady on the spot at 4s. 3d. per lb.; shipment, 4s., c.i.f. Old-crop rounds, f.a.q., is available at 3s. 11d. per lb., spot.

Calabar beans.—Supplies in Liverpool are offered at $10\frac{1}{2}$ d. per lb., ex warehouse.

CAMPHOR.—The market is steady with a fair business done. Chinese tablets (\frac{1}{4}\cdot -\text{oz}.). quoted at 11s. 3d. to 11s. 6d. per lb., spot; refined powder (B.P.), 11s.; Formosa (B.B.), 10s. 3d.; 2\frac{1}{2}\cdot -\text{lb}. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude, 93-95 per cent., 7s. per lb.

CANTHARIDES.—Chinese, on the spot, is quoted at 15s. per lb.; forward, 9s., c.i.f.

CASCARA SAGRADA.—Quotations for 1946 peel are from 225s. to 250s, per cwt., duty paid. American new-crop is quoted at 215s. per cwt., landed, duty paid.

CASCARILLA.—Continues quiet with prices unchanged. Quills are at 1s. 10d. and siftings at 1s. 6d. per lb., spot.

CHAULMOOGRA.—Hydnocarpus, in tins in cases, is quoted at 1s. 11d. per lb., spot.

CHILLIES.—Quiet. Mombasa, quoted at 160s, per cwt., spot; Nigerian, 130s., spot; Japanese-type, 190s. to 200s.

CLOVES.—Zanzibar, quoted at 93d. per lb., spot. Penang, offered at 3s. to 3s. 6d.

COCHINEAL.—Silver greys, quoted at 4s. 3d. to 4s. 6d. per lb., spot; blacks, 5s. 6d. per lb.

Cod-Liver oil.—British-produced oil of B.P. quality is quoted from 12s. to 13s. per gall., delivered in the United Kingdom.

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Colocynth.—Quiet. Spot, fine-white is offered at 2s. and medium-white quoted at about 1s. 10½d. per lb.

DIGITALIS.—Portuguese is steady at 130s. per cwt., spot; English-grown is quoted in the region of 2s. 6d. per lb.

Dragons bloop.—Singapore reboiled No. 1 is at £80 to £85 per cwt., spot; second-grade material is available at £65.

ERGOT.—Quoted on the spot at 4s. 9d. to 5s. per lb.; forward, 4s. 6d., c.i.f.

EUPHORBIUM. — Firm; spot quotations are in the region of 85s. to 90s, per cwt.

GAMBOGE.—Spot, Siam pipe is quoted at £60 per cwt., duty paid.

GENTIAN.—French natural root, on the spot, is quoted at 100s.; cut, 130s. per cwt.

GINGER.—Jamaican is easy with No. 1 quoted at 110s. per cwt., spot. No. 2 is quoted at 100s.; No. 3, 90s. Sierra Leone, on the spot, is at 67s. 6d.

GUAIACUM RESIN.—Lump is offered at 2s. 9d. per lb., ex warehouse London.

Gum Acacia.—Kordofan cleaned sorts is steady at 73s. per cwt., ex store; shipment 67s. 6d., c.i.f. Bleached No. 1 is quoted at 145s., ex store, and Talha at 40s. per cwt., spot; forward, 37s. 6d., c.i.f.

GUM MASTIC.—No. 1 is offered on the spot at 14s. per lb., duty paid.

Hellebore.—Spot quotations are un-

changed at 3s. 3d. per lb.

Henbane.—Quotations are at 4s, 6d. per

b., spot, for fair quality material.

HENNA.—Egyptian leaves are offered at 135s. per cwt., ex warehouse.

HYDRASTIS.—Firm. Spot quotations are at around 60s. per lb.

IPECACUANHA.—Spot, Nicaraguan root is firm at 27s. per lb., shipment, 23s. 9d., c.i.f. Colombian root for shipment is quoted at 22s. 6d., c.i.f.

IRISH MOSS. —French material, finestquality bleached, quoted at 120s. per cwt., spot; No. 1, 105s.; No. 2, 95s. per cwt.

JALAP.—Vera Cruz, spot offered at prices from 4s. to 4s. 6d. per lb., according to test.

JUNIPER.—Italian berries, quoted at from 56s. to 65s. per cwt., according to quality.

Karaya.—No. 1 gum is quoted at 215s. to 220s. per cwt., spot; No. 2, 170s.

KOLA NUTS.—Steady. African quarters are quoted at 7½d. per lb.; African halves,

5d. to 6d., according to quality; Jamaican washed halves, 5½d. per lb.

LAVENDER FLOWERS. — Spot quotations

LAVENDER FLOWERS. — Spot quotations are from 2s. 3d. to 4s. 6d. per lb., according to quality.

LIQUORICE ROOT.—Anatolian whole root is quoted at 52s. 6d. per cwt., spot. Turkish juice (block) is quoted at 250s. per cwt., duty paid; shipment, 225s., c.i.f. Italian block for shipment, 250s., c.i.f.

LOBELIA.—Firm; herb is quoted at 6s. per lb., on the spot.

MACE.—West Indian pale, on the spot, is at 6s. 9d. per lb., buyers.

Malefern.—Jugo-Slav is available at £85 per ton, spot.

Menthol.—Brazil, 44s. to 45s. per lb. quoted, duty paid; forward, 39s. to 40s., c.i.f. Chinese, in original cases, 50s. to 52s. 6d. per lb., duty paid.

Mercury. — Selling price has been reduced to £16 per flask, ex warehouse; for shipment, £15 8s., c.i.f. U.K.

MYRRH. — Spot. Aden sorts is quoted at £14 to £15 10s. per cwt., according to quality; siftings, £8 to £10 per cwt.

NUTMEGS.—West Indian 80's are steady on the spot at 2s. 9d. per lb.; unassorted, 2s. per lb., sellers.

Nux vomica.—Madras is steady at 40s. to 42s. 6d. per cwt. Mangalore, 40s.; Cochin, scarce, 42s. 6d. to 45s., spot, as to seller.

PYSYLLIUM SEED.—Black, on the spot is quoted at prices from 2s. 3d. to 2s. 9d. per lb.; pink seed is quoted at 1s. 5d., spot.

RHUBARB.—Spot quotations for Chinese rough round are from 6s. to 8s. according to fracture; forward, from 4s. 6d. to 6s. 6d., c.i.f. Poorer qualities are offered at 4s. 6d. per lb. Some French rhapontica at 2s. per lb., spot.

SEEDS.—ANISE, Cyprus offered at 2s. 3d. per lb.; Turkish, 2s. 1d. per lb., spot London or Liverpool, duty paid. Caraway.—Dutch reported sold at 1s. 0½d. per lb., duty paid, spot London. Celery.—Indian quoted 1s. 4d. per lb., spot Liverpool. Coriangle.—Spot, Morocco, 45s. per cwt., duty paid, ex wharf, London; Argentine, 42s. 6d. per cwt., duty paid, ex wharf, London; Indian, 42s. 6d. per cwt., ex wharf, Liverpool; English, 75s. per cwt. Cumin.—Spot, Indian, 235s. per cwt. ex wharf, Liverpool or Hull; Cyprus, 230s. per cwt., ex wharf, London. Fennel.—Indian, 90s., spot, London and 87s. 6d. quoted ex wharf, Liverpool. Fenugreen.—Indian, 45s. per cwt., ex wharf, London and 42s. 6d. per cwt., ex wharf, Liverpool. Fenugreen.—Indian, 45s. per cwt., ex wharf, Liverpool.

SENEGA.—Spot quotations for old-crop material are at 12s, per lb. New-crop, for shipment, 10s. 6d. to 10s. 9d. nominal, c.i.f.

Waxes.—Bees', Dar-es-Salaam or Lindi are not available on the spot and there are no offers from source. Benguela, spot, is quoted at 370s. per cwt., duty paid; for shipment, 395s., c.i.f. Candelilla.—Spot is quoted at 420s. per cwt.; shipment, 395s., c.i.f. Carnauba. — Fatty grey, 640s. per cwt., spot; afloat, 580s., c.i.f.; for shipment, firmer at 565s., c.i.f. Prime yellow is steady at 750s., spot; for shipment, firmer at 680s., c.i.f. Montan. — Steady. Reibeck is quoted at 390s. per cwt., spot; Czechoslovak crude, 330s., spot. Ouricur.—5 per cent., for shipment, 330s. per cwt., c.i.f.; 2 per cent. forward, 350s. c.i.f.; 7-9 per cent., 370s., spot., 9 per cent., 375s., spot.

Essential and Expressed Oils

Almond.—B.P. (sweet) is quoted at 8s. to 12s. per lb., according to seller; supplies are rather short. Bitter oil, to come forward, is quoted at 25s. to 27s. 6d. per lb.

ANISEED OIL .- Spot quotations are from 5s. 6d. to 6s. per lb. with more for smalls. September-October shipment, 3s. 6d. in drums and 3s. 10d. to 4s. in tins and cases,

Bay.—West Indian is steady at 8s. to 9s.

per lb., spot.

CADE.—Spot quotations are at from 4s. to 5s. 6d. per lb., according to quantity.

CANANGA .- Spot quotations for Java oil

are from 35s. to 40s. per lb.

Cassia. — Spot quotations are from 16s. 6d. to 18s. per lb., as to quantity.

CINNAMON LEAF. - Spot supplies are quoted at from 11s. 6d. to 13s. 6d. per lb. CITRONELLA. — Ceylon on the spot is quoted from 6s. to 8s. per lb., according to quantity.

CLOVE. — English-distilled bud oil is steady at 11s. 6d. to 12s. per lb., according to quantity.

Fennel.—Sweet oil is quoted at 17s. 6d.

to 20s. per lb., on the spot.

GERANIUM .- Bourbon is steady at from 70s. to 77s. 6d. per lb., according to quantity and grade.

GINGER.—Quotations range from 75s, to 125s. per lb., according to quality and seller.

GUAIACWOOD .- Quoted at 16s. to 19s. per lb., spot., according to quantity and seller. JUNIPER BERRY.—English-distilled, from European berries, is quoted at 125s. per lb. Imported oil can be obtained at prices from 30s. to 35s. per lb.

LAVANDIN.—Steady. Prices range from 11s. 6d. to 15s. 6d. per lb., spot, according

to seller.

LAVENDER.—Quotations for French (38 to 40 per cent. esters) are from 45s. to 47s. 6d. per lb. Spanish (spike) is quoted at 11s. 6d. to 12s. 6d. per lb., spot.

Lemongrass.—Spot quotations are from 6d. to 9s. per lb., according to quantity. LIME.—Quotations for West--Indian distilled are from 30s. to 34s. per lb.

LINSEED.—Controlled price of crude is

£200 per ton, naked ex works.

NEROLI. — Spot quotations are at from 87s. to 92s. per oz., according to quantity.

Nutmeg.—English-distilled oil is steady at 45s. to 55s. per lb., spot: West-Indian distilled, to come forward, 42s. 6d. to 45s. per lb., landed.

ORIGANUM.—Quoted at 18s. 6d. to 19s. 6d.

per lb., spot.

Palmarosa.—Spot quotations are at from 32s. 6d. to 37s. 6d. per lb., according to seller and quantity.

PATCHOULI.—Seychelles, spot, quoted at 75s. to 80s.; to come forward, 65s. per lb. Pennyroyal.—Spot, 23s. to 25s. per lb.

quoted.

PIMENTO BERRY.—English-distilled oil is quoted at 47s. 6d. to 57s. 6d. per lb., according to quantity and seller.

Rosemary.—Spanish is quoted at 8s. 6d. to 11s. per lb., according to seller and

quantity.

Sandalwood.—English-distilled is quoted at 85s. to 90s, per lb., according to quantity.

Sassafras.—Brazil, in fair supply, is quoted on the spot at 5s. to 5s. 6d. per lb. THYME. — Red oil (40-42 per cent. phenols) is at 13s. 6d. to 16s. per lb.; white oil is quoted at 17s. to 18s. 6d. per lb., spot.

Vetivert.—Java is quoted at 135s. per lb., on the spot; Bourbon is at 180s.
YLANG YLANG.—Réunion No. 1 quality is

quoted at 90s. per lb.; No. 2, 50s.; No. 3, 35s.

ZANZIBAR CLOVES

CLOVE arrivals continued to be heavy during the first quarter of 1947, recorded supplies totalling 15,551,130 lb. (444,318 fra-The seasonal arrivals (July 1946 silas). to March 1947) totalled 35,185,488 lb. (1,005,300 frasilas), the equivalent in standard bales being 251,325 or 15,708 Pemba has supplied 84.28 per cent. of the total arrivals. Open market prices at the beginning of January ranged from Shs. 48 to Shs. 50 per 100 lb., subsequently fluctuating between Shs. 57 mid-January and Shs. 51 to Shs. 51-75 at the end of the Arrivals then showed some quarter. slackening off what crops remaining in the hands of the growers being held for anticipated better prices. Sales to the Clove Growers' Association were negligible. Exports for the quarter totalled 7,979,665 lb., equal to 56,998 standard bales or approximately 228,000 frasilas. The Association supplied 10 per cent. of this total. India as usual was the chief market (74 per cent. of the total). Although India took the bulk of the shipment during the quarter, the total was disappointing and little activity is being shown in Indian markets for the time being. The United Kingdom received 980 bales (137,200 lb.), which was 1.72 per cent of the total exported.

During the quarter heavy supplies of clove stems (totalling 7,630,926 lbs.) were purchased by the Association for distillation. As had been the practice for some months past, a mixture of buds with stems was used in the distillation process. For 1,231,422 lb. of stems and 236,649 lb. of buds were distilled used for general distillation as from the beginning of April. Clove oil exports during the quarter totalled 80,983 lb., almost

entirely to the United Kingdom.

TRADE MARKS

(From "The Trade Marks Journal," July 30)

"EVYAN" in distinctive lettering; for perfume and toilet water (not medicated) (3). By Parfums Evyan Co., 136 East 57th Street, City and State

of New York, U.S.A. 648,832.
"LORRAINE" design of Lorraine in distinctive lettering, with Abietsan, London, England, beneath; for liquid perfumes (3). By The Abietsan Manufacturing Co., Ltd., Concordia Works, Carmichael Road, London, S.E.25. B659,481 (Associated).

"SCHERING"; for pharmaceutical products (5).
By British Schering, Ltd., 167/169 Great Portland Street, London, W.I. B645,234 (Associated).

Design of sun rising over mountain tops; for pharmaceutical preparations (5). By E. C. De Witt & Co. Ltd., 2 Cherry Orchard Road, Croydon, Surrey. 647,680 (Associated).

"PROPACIL"; for pharmaceutical preparations for human use and for veterinary use, sanitary preparations and substances, medicated wines, infants' and invalids' foods; biological preparations (pharmaceutical) and dietetic foods (pharmaceutical) (5). By Genatosan, Ltd., 43 Regent Street, Loughborough, Leics. 647,832.

"FLYOSOL"; for insecticides (5). By Fubex, Ltd., 27 Albemarle Street, London, W.1. 648,418 (Associated).

"Peldosect"; for insecticides and fungicides (5).

By C. R. Harker, Stagg & Morgan, Ltd., 1-5

Emmott Street, Mile End, London, E.1. 648,496.

"F. J. V. HARVERSON" facsimile signature; for all goods included in Class 5 (5). By Frederick James Verdi Harverson, 148 High Street, Merthyr Tydfil. 648,630.

"AERSEC"; for all goods included in Class 5 (5). By Savory & Moore, Ltd., 61 Welbeck Street, London, W.1. 648,920.

"Belbro"; for calibrated glassware, capillary tubes, chemical and scientific apparatus and instruments, indicating instruments for use in the control of heat, electrolysis outfits, electrolytic cells, hydrometers, measuring apparatus, water meters, optical glass, ozonisers, testing instruments, gas-filled electric discharge tubes, water gauge tubes of glass, and water level indicators (9); for blood drawing appliances for purposes of analysis, blood-testing apparatus, ampoule syringes for medical or surgical purposes, drop counters (for counting drops), medicine droppers, hypodermic syringes, and surgical instruments (10). By Bell Brothers (Domestic), Ltd., Westford Mills, Wellington, Somerset. 646,838-39.

"LEOPHOT"; for photographic, cinematographic and optical apparatus (9). By George Childe, Ltd., 54 Albion Street, Leeds, 1. 648,846.

"SPHINX"; for hypodermic needles, hypodermic syringes, surgical needles, surgical clips and surgical cutlery (10). By Needles Industries, Ltd., 106 Edmund Street, Birmingham, 3. 647,028 (Associated).

"DR. R. B. WAITE'S" facsimile signature; for all goods included in Class 10 (10). By Cookwaite Laboratories, Inc., 170 Varick Street, City and State of New York, U.S.A. 648,431 (Associated). APPLICATIONS AMENDED AFTER ADVERTISEMENT

Specification of No. 646,217 by Cyril Henry Brooks should be altered so as to read: "Pharmaceutical detergent preparations for use in dermatology."

(From "The Trade Marks Journal," August 6)

Design of a golfer driving from a green with an elongated flag; for chemical products used in agriculture and horticulture (other than fungicides, insecticides and preparations for kllling weeds); lime for agricultural and horticultural purposes; and natural and artificial manures and fertilisers (1). By Soil Fertility, Ltd., 181 Higher Lane, Lymm, Cheshire. 644,841.

Device of an oak tree incorporating the word

" Ολκ"; for gelatine for industrial use (1). By T. Tabberner & Co., Ltd., Vauxhall Street Works, Collyhurst Road, Manchester. 648,127

(Associated).

"TERON"; for chemical substances used in industry, science and photography, and adhesive sub-stances used in industry (1). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 648,399.

"THREE STAR PERMALETTES"; for hair waving sachets; hair rinses, hair conditioning creams, hair brilliantines, hair shampoos, hair dyes, and reagents for use in waving the hair (3). By The Permal Laboratories, Ltd., Salisbury House,

Park Road, Hull, Yorks. 640,894 (Associated).
"TRIMTREX"; for hair cream (3). By W. & A. Coldham, 165 Waterloo Road, Norwich, and 20

Wensum Street, Norwich. 642,957.

"Petray"; for toilet preparations (not medicated) for the skin and scalp, toilet preparations for the hair, cosmetics, perfumes, essential oils, preparations and sachets for waving hair by hot or cold processes (3). By Henry Sharpe, 4A Clifton-park Avenue, Belfast, Northern Ireland. 644,523.

"VALSE D'ADIEU BRILLANTE" (word "Brillante" disclaimed); for lotions, creams and powders, all being non-medicated toilet preparations; toilet rouge, perfumes, lipsticks, depilatories and preparatons for the hair (3). By Arnost Michael Havlik and Josef Havlik, 12 Diana Place, Euston Road, London, N.W.1. 645,283.

"PERMALENE"; for sachets for use in waving the hair, toilet creams (not medicated) and preparations for the hair (3). By The Permal Laboratories, Ltd., Salisbury House, Park Road, Hull,

Yorks. 646,328 (Associated).

"LAMETTA"; for hair dyes and hair rinses (3).
By J. R. Bloom, Ltd., 33 Warrington Crescent,

London, W.9. 646,830.

"VRANIL OPERA" on label design of two figures in costume (word "Opera" disclaimed); for perfumes, cosmetics, toilet preparations (not medicated), and sachets for waving the hair (3). By Lennard, Lee-Narvill & Co., Ltd., 216 Anlaby Road, Hull. 648,037 (Associated).

"BIROME"; for toilet preparations (not medicated), cosmetics, perfumes, soaps, preparations for the hair, and dentifrices (3). By Biro, Meyne & Biro Sociedad Anonima Comercial E Industrial, Alsina Street, 633 Buenos Aires, Argentina. 648,737.

BAYER PRODUCTS SUPPLY POSITION

Below is shown the supply position of some of our products, not available during the war, which have now again been marketed. In three cases products have been imported from our associated company in U.S.A., by special authority, because of their importance. The others are Made in England.

- 'ACIDOL'-PEPSIN Hydrochloric acid in solid form, with pepsin. Now in free supply in packings of 10 and 50 tablets.
- A.T.10 Dihydrotachysterol. To maintain the blood calcium level in tetany. 15 c.c. bottles only.

"BAYER" 205 Suramin. For sleeping sickness. Bottles of 5g. powder only.

- 'NOVALGIN' Available in limited quantities against urgent prescriptions. Bottles of 25 tablets and boxes of 5 x 2c.c. amps. only.
- 'PADUTIN' 'Circulatory hormone,' for all types of circulatory dysfunction, including chilblains. Now in free supply in oral solution (10c.c. and 50c.c.) and 1c.c. amps. (5's and 50's).
- 'PROMINAL' Supply difficulties have not yet been overcome, but moderate demands can be met.
- 'PROTHEONAL' 'Prominal' + theobromine + iodine. For hypertension. A temporary break in supplies has occurred. Meanwhile 'Theominal' is available for this indication.
- 'TORANTIL' Histamine-destroying enzyme. For prophylaxis and treatment of allergic disorders. Oral form is in free supply. (pellets, 20's and 150's).

Enquiries regarding our products are welcomed at all times.

Please note that the proprietary names quoted above are

Trade Marks.

BAYER PRODUCTS LTD.

AFRICA HOUSE, KINGSWAY, LONDON, W.C.2.

REFINED CHINESE

TABLETS Joz. and Joz. SLABS AND POWDER

MENTHOL, ESSENTIAL OILS GUMS, WAXES, DRUGS SHELLAC, CHEMICALS

ERNEST M. SINGER

5 WHITTINGTON AVENUE, E.C.3 TEL: MAN. 6040 & 6666

IMPORT - EXPORT

Ouinine and Phosphorus Tonic

We can now resume deliveries of this popular Tonic, and accept a few new customers

Children's Cough Balsam

'Contenta' Gripe Mixture

Children's Tonic

containing

Glycerophosphates and Hæmoglobin (Builder and Toner)

Blackwell Hayes & Co. Ltd

WHOLESALE PHARMACISTS 54-58 Moor Street - Birmingham - 4

FOR

BARKS ROOTS **HERBS & GUMS**

WHOLE CUT or POWDERED

TRY-

BROME & SCHIMMER

WHOLESALE DRUGGISTS
BOTANICAL DRUG IMPORTERS
AND SPICE MERCHANTS

7 LEATHER MARKET, LONDON, S.E. I

Tel: HOP 0825-6-7 Cables: Bomshim, London Telegrams: Bomshim, Sedist, London

Specialists in Crude Drugs

D.D.T. 80% P.P.I. CALAMINE AND ZINC CARBONATE

Inquiries invited

WILFRID SMITH LTD. 16 PHILPOT LANE LONDON - E.C. 3

MAN 1601 Telephone Tel. Address

Accollyst, Bilgate, London



important announcement...

MESSRS.

CAL-MA-VITE LABORATORIES LTD

beg to announce to the wholesale and retail trade, that, having removed to more commodious premises, they are now in the position to manufacture practically any size or type of tablets from a saccharine size to 1-2 inch, from either our materials (subject to availability) or yours.

All our modern machines and method of manufacture are at your service.

• We can guarantee large or small deliveries

Write your requirements to:-

MANAGING DIRECTOR

CAL-MA-VITE LABORATORIES LTD 32-40 NORTH STREET HORSHAM · · SUSSEX

August

IF YOU'RE OUT OF ONE RECOMMEND THE OTHER



In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two kinds of Parmint and their three sizes.

> All our Press advertising features both Parmints and mentions all their prices. At the moment the 1/5 ready for use Parmint Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a 2/10 bottle or a $3/1\frac{1}{2}d$. bottle of the Parmint Concentrated Essences.



and



INTERNATIONAL LABORATORIES LTD: I-3. SMEDLEY STREET, LONDON, S.W.S

RISING STILL SALES

Results Convincing and the Good News Spreading

H.B.T. Chlorophyll and Yeast Tablets

Rejuvenation and Vital Energy

They contain no drugs, a safe and sure recommendation for your clients.

3/- & 6/- Incl. Pur. Tax.

Through any Wholesaler or direct from

FR BFATTIF PRODUCTS

B.C.M./H.B.T. London, W.C.I



ITALIAN LICORICE

We hope to ensure regular supplies throughout next season and are now accepting orders from Wholesalers.

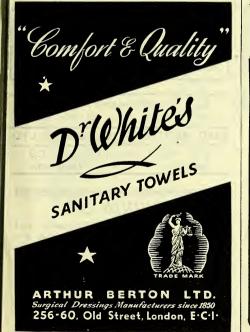
Sole Concessionaires for the United Kingdom ELDER REED & CO. LTD..

105, H'GH STREET, BATTERSEA, S.W.II

47









August 2



The Rational Therapy for

SPASTIC DYSMENORRHŒA

MENOVO, an entirely new approach to the symptomatic and antispasmodic therapy for menstrual pains, is now being introduced to the medical profession by direct mail and press announcements. A national campaign has also been arranged in the daily press, provincial newspapers and women's magazines

FORMULA: Bromisovalerylurea ½ gr. (16.25 mg.); Carbromal ½ gr. (48.75 mg.); Acetphenetidin (phenacetin) 2½gr. (140.00 mg.); Ephed. hydrochlor 30 gr. (1.95 mg.); Codein phosph. ½ gr. (3.25 mg.); Ext. bellad. sic. ½ gr. (3.90 mg.); Sod. bircarb. 2 gr. (130.00 mg.); Aromatic carminative q.s., Excipient q.s.

Orders for "smalls" may be handled by your usual wholesaler. Bonus parcels obtainable only from the sole distributors MAW OF BARNET for the U.K.

FOR
THE RELIEF OF
PERIODIC PAINS
(SMITTIC DYSIMMORANGA)
2/3

Manutactured by

PRODUCTS LIMITED

RICHMOND, SURREY

WOMEN KNOW FROM EXPERIENCE THE SECURE COMFORT OF



SUPPLY THEM WHENEVER YOU CAN

TOBINSON A BONS LTD . CHESTERFIELD & LONDON

For SURGICAL DRESSINGS and CHEMISTS' SUNDRIES

Try: -- THE CHEMISTS' SUNDRIES (Wholesale) Co.
Bamber Bridge, Preston, Lancashire Phone: 85403

NEW or SECONDHAND MACHINERY or Chemical Plant of any kind

REED BROTHERS (Engineering) LTD.

Bevis Marks House, London, E.C.3

Telephone - AVEnue 1677/8

ASPIRIN 309

Supplies of this New, Palatable and convenient form of Aspirin—with the lemon flavour—are immediately available. Extensive Advertising supports you and attractive display material sent upon request.

Manufactured by:

SMITH, SAVILLE & PARTNERS Ltd.

Willshaw St., London, S.E.14

47



PRE-WAR LINES



RUBBER AIR RING



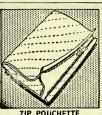
CIRCULAR TOILET BAG

And some new ones, too

1947 SEES US getting back into production with many of the favourite and best-selling surgical goods of before the war. In addition to these established Li-Lo successes we are adding new items, including the Whirling Spray (shown here), "Travelette Spray" and an extensive range of surgical and domestic goods in plastic.

Write for trade terms to the exclusive makers of Li-Lo Products:-

P. B. COW & CO. LIMITED, ESTABLISHED 12, HAY HILL, BERKELEY SQUARE, LONDON, W.I. TEL: REGENT 7401 (10 LINES)



ZIP POUCHETTE



WHIRLING SPRAY



COT AND BED SHEETING

Protexit CHIROPODY and other uses

PRICES PER DOZEN:

8 oz. 16 oz. I oz. 39/-6/9 75/-All prices subject to 331 per cent Purchase Tax, with the exception of the 16 oz. size WHOLESALE TERMS ON APPLICATION

Attractively packed in carton with transparent paper wrapping

MACDONALD SALFORD, STREET.

August :

CA

SOUTH AFRICA

For best possible service entrust the distribution of your pharmaceutical products to

ALEX. LIPWORTH Ltd.

1-3 DE VILLIERS ST., JOHANNESBURG

DEPOTS THROUGHOUT THE UNION

Laboratories in the same organisation are also available for Manufacturers of Pharmaceutical Proprietaries

For particulars apply to:

ANGLO-AFRICAN SHIPPING CO. (S.A.), LTD. 99-100 Fenchurch Street, LONDON, E.C.3

Telephone: ROYAL 8261

THINGS TO COME

bright and promising future ahead of them. These tiny silvercoated pillules of specially-treated iodine have striking phophylactic
and therapeutic qualities that tackle the common cold in an extremely efficacious and unusual manner. When dissolved slowly
on the tongue they instantly mobilise and bring into action the body
defence mechanism. We are confident that once introduced to
this new form of cold immunisation the public will be swift to
recognise its virtues. Consequently September will see the launching
of Pillodines, commencing with a series of Chemists' window displays featuring the complete 30-day treatment in the new 3/6
one-at-a-time containers. This will be the fore-runner of a vigorous
trade and national Press advertising campaign.

WATFORD CHEMICAL CO. LTD.

Telephone: WELbeck 0264/8 30 BAKER STREET, LONDON, W.1 Telegrams: Watchempro', Wesdo, London

CARLTON PHARMACEUTICAL INDUSTRIES LTD

78 BOLLO BRIDGE ROAD. LONDON, W.3

have pleasure in announcing that

MESSRS. MEGGESON & CO. LTD.

Chessington Hall, CHESSINGTON Surrey,

have been appointed sole agents for the sale of

	PRICES		
	INCLUSIVE RETAIL	WHOLESALE	PURCHASE TAX
CHILBALM (CHILBLAIN CREAM)	1/3	8/7	$16\frac{2}{3}\%$
PEACH BALM (MEDICATED ANTICHAFE CREAM)	1/9	12/-	163%
SPOT BALM (NON-STAINING ACRIDINE CREAM)	1/5	9/5	$16\frac{2}{3}\%$
FLOWER PETAL DUSTING POWDER (BORATED TALCUM POWDER)	2/-	13/9	162%

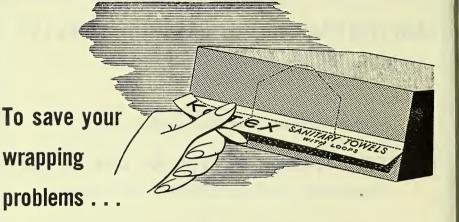
£2 Parcel less 5% : £4 Parcel less 10%

Orders may be sent to either of the above addresses

by Chemists Made



Sold only by Chemists

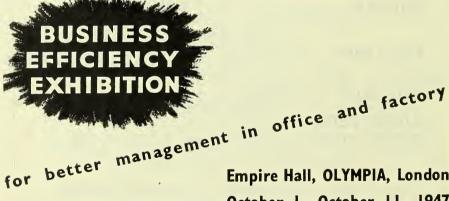


... tear off perforated strip

For your convenience, Kotex has Simply remove the strip and the plain pack is ready. Limited quantities are available for the wholesale trade.

decided to revert temporarily to the plain pack with "tear-off" strip. Kote X WITH LOOPS

Cellucotton Products Ltd., 33/34 Aylmer Parade, London, N.2.



Empire Hall, OLYMPIA, London October 1 - October 11, 1947

Organised by the Office Appliance Trades Association of Gt. Britain and Ireland, 11-13 Dowgate Hill, Cannon Street, London, E.C.4.

OPEN from 10 a.m.—8 p.m. daily (Except Sunday)

August 23, 1947

THE CHEMIST AND DRUGGIST

FOR PROFITABLE REPEAT BUSINESS!

DENSHEEN Regel

TOOTH WHITENING PENCIL

TENSHEEN Peroxide

Attractive Packs & show material

ONE DOZEN ON A SHOWCARD

or each tube on its own counter card

> **Every Tooth Brush** and Dentifrice Customer is a DENSHEEN Customer!

Make the DENSHEEN PENCIL part of the sale.

IT PAYS to include DENSHEEN with all Tooth Brush and Dentifrice Displays.

HANDY—ATTRACTIVE—It appeals to EVERY customer and **ENSURES REPEAT SALES.**

EXPORT ENQUIRIES INVITED

DENCIL MANUFACTURING Cº LTD

21 CAMBRIDGE STREET, LIVERPOOL, 7

Telephone

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SELTZER GRANULES

SELTZER CRANULES

OR DAILY HEALTH
TAKE VOLA SELTZER
FIRST THING EVERY
MORNING AND YOU
WILL FEEL FIT AND
FRESH FOR THE DAY

The modern method for the relief of indigestion, fatigue, liver disorders and biliousness. Vola Seltzer is achieving record sales in all parts of the country as more people appreciate its quality. Vola Seltzer is also available in tablet form.





Order from your usual wholesalers or direct :-

JOHNSON AGENCIES (PTYS) LTD

CLARENDON WORKS · CLARENDON ROAD · CROYDON · SURREY



ONE Tablet often gives relief in

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30 seconds

TABLETS

Now available in three sizes I/I½, 3/4½, II/I0 INCL. P.T.

INTERNATIONAL LABORATORIES

I-3 SMEDLEY STREET, LONDON, S.W.8 MACaulay 3481







"ZEMS" HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained from C.F.
Wholesale Houses

ZEMS, LTD.

718-724 Seven Sisters Road, London, N.15

CALCIBRONAT

(Calcium Bromo-lactobionate)

A SAFE AND DEPENDABLE SEDATIVE

CALCIBRONAT fulfils the three most important desiderata of a sedative for general use—efficacy, safety and freedom from objectionable side effects. From the point of view of the patient, palatability and convenience of administration are very desirable supplementary attributes. Being available in effervescent tablets, Calcibronat is pleasant to take and well tolerated by the most fastidious patient.

AVAILABLE IN GRANULES
EFFERVESCENT TABLETS
AND AMPOULES

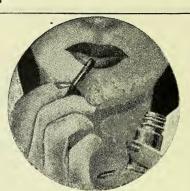
SANDOZ PRODUCTS LIMITED

134 WIGMORE STREET, LONDON, W.I.

Amist

LIQUID LIPTONE

NEW LIQUID 'LIPSTICK' First and only lipstick that REALLY STAYS ON





This new Liquid Liptone is the ideal 'lipstick' at It cannot smear and really won't rub off. Imported under license. Supplies at present are limited.

REVINGTON MERCHANDISING CO. LTD.

62-66 STONEY LANE, LONDON, E.C.3

TELEPHONE: BISHOPSGATE 7734-5355

NORTHERN POLYTECHNIC

HOLLOWAY, LONDON, N.7

Recognised Day courses for the PHARMACEUTI-CAL and 1st Medical Examinations. Evening courses CAL and 1st Medical Examinations. Evening courses for the Intermediate B.PHARM. and 1st Medical Examinations. Day and Evening Courses in CHE-MISTRY, PHYSICS, MATHEMATICS, BOTANY and ZOOLOGY for Internal and External DEGREE EXAMINATIONS of the University of London. Evening Classes for MATRICULATION subjects. Special Courses in RUBBER TECHNOLOGY.

NEW SESSIONS BEGINS 22nd September, 1947

Prospectus free on application. Tel: NORTH 1686

GENUINE EGYPTIAN HENNA POWDER (Minimum 7lb. Lots) 4/6d. per lb. nett.

LIQUORICE JUICE STICKS

(Minimum 4lb. Lots)
5/3d. per lb. nett.
Both items cash with order, carriage paid.

PROMPT DELIVERY FROM STOCK ORDER NOW !!

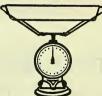
The Faylene Manufacturing Company 15 Queens Court, Lower Briggate, Leeds J. Telephone 22594

MORE AND MORE SALTER SCALES



MORE NURSES





The maintenance of Salter accuracy is as vital to correct weight as the maintenance of correct weight is to health.

SELF-INDICATING SCALES

GEO. SALTER & CO. LTD., WEST BROMWICH

M-W.147



of SIEMENS ELECTRIC LAMPS AND SUPPLIES LIMITED, 38/39 Upper Thames Street, London, E.C.4



Retail Prices of SECTO D.D.T. are:-

Powder 1/3 2/6 5/6 Liquid 2/- 3/- 6/- 15/-Usual Trade Profit Margins and Discounts

SECTO CO. LTD., BLACKBURN

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saving the Savings Group way is that it is simple. It makes saving regular and easy because the money is collected and invested for you. What you can put away each week then soon piles up until you've a useful 'bit of brass' behind you, and you hardly

notice the effort of saving.

Join your own staff Savings Group to-day. Remember, every shilling, every pound you save benefits not only you but the Nation in its urgent work of reconstruction. If no Savings Group exists, ask your departmental manager, foreman or shop steward to request the management for the necessary arrangements to be made

ANOTHER GOOD SAVINGS IDEA!

Every place of employment can run a National Savings Club as well as a Savings Group. Clubs exist for the special purpose of helping you to save without disturbing your normal Savings, for special occasions such as Christmas, for holidays or for outings. Material for running Savings Clubs and Groups is supplied free Explanatory literature from:

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It's easier to save in a

STAFF SAVINGS GROUP

Issued by the National Savings Committee

LINK UP with THIS BIG CAMPAIGN



Vigorous Press and Poster Advertising is putting VITAL FORCE over in a big way. Take a share of this profitable business. Let us send Display material and Showcards (in full colour), together with handsome terms. Retails at 3/9d.

MACLENNAN PRODUCTS LTD.

9, MONTRELL ROAD, LONDON, S W.1.

No Empties No Fulls

Your supplies of squashes and cordials are now strictly related to the number of empty bottles you return. The Soft Drinks Industry has been compelled to make this rule as only negligible numbers of new bottles are being obtained. You, in turn, must insist upon every customer handing in an empty S.D.I. bottle before you supply a full one, otherwise your future supplies of squashes and cordials will be cut. It is regrettable, and repugnant to the manufacturers, but there is no option. The fact is the empty bottles are not coming back.

make a fast rule of BOTTLE FOR BOTTLE

The Soft Drinks Industry (War Time) Assocn. Ltd.



42 Upper Grosvenor Street, London, W.1



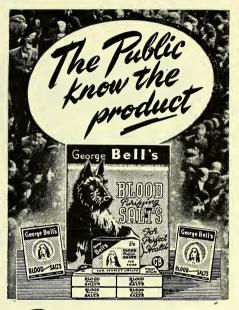
is as keen and clean as a surgeon's knife, giving a shave of unsurpassed comfort and smoothness. WANIE Blades have been famous for over 29 years and to-day their popularity is greater than ever. Price 1/6 per doz including purchase

BRITISH MADE BY BRITISH CRAFTSMEN

LONDON & PROVINCIAL FACTORS

230 Tottenham Ct. Rd. London W 1.





Remind them to buy by displaying GEORGE BELL'S

Blood Sollis

GiveGeorge Bell's Blood Salts, for dogs, window and Counter display and link up with the extensive advertising campaign.

This will mean more sales and profits for you. The packs make good displays, but if you require further display material, please write:—

BELL & SONS, LTD.,

18, SILVERDALE WORKS, LIVERPOOL, 13

S.C.P9

Little-known Limericks—No. 36



A chemist who'd given up smoking
Found his customers extra provoking,
But he always could grin
When the Brand's man looked in.
This is perfectly truthful—no joking!

We fully sympathize with retailers in their difficulties today. We, too, have our own problems—chief of these, shortage of ingredients and containers for making and packing these popular products that are "made by the makers of Brand's Essence." By dealing with our customers strictly in rotation, and on an absolutely fair quota basis, we do our utmost to help you to keep up with the demands of your customers.

Brand & Co. Ltd.

London



public know that a tin of OATREX is a tin of

CATRITION

Enquiries to Kings of Kingsbury (Sales), Ltd., 1. London Bridge. S. E. 1.

KING'S PATENT PRE-COOKED OATMEAL

WHOLESALE AND EXPORT BRUSHES FOR THE CHEMIST AND HAIRDRESSER

Manufactured by: Telephone: BIS 8277

Enquiries

Invited

"GUARANTEED BRUSHES"
12/13 Whitecross Place,
Wilson Street, London E.C.2

CHARCOAL

description for Filtering, Medicinal, Decolorizing, Absorption, etc.

PEAT & CHARCOAL LTD. 24, Union Road - Exeter - Devon.

EVERSHARP

RAZOR

FIT EVER-READY RAZORS

BLADES

Wholesale Price 8/= Gross Post Free

DEPT. J

L. FRANKENBERG Ltd.
37 HOUNDSDITCH, LONDON, E.C.3

- WHOLESALERS APPLY FOR TERMS -

SevenSeaS COD LIVER OIL

Presents to the chemist the best opportunity for increasing turnover and profits. The public have never before been so fully aware of their need for more fats and more vitamins and SEVENSEAS is the best answer for both.



It is to the chemist's advantage to render National Service by pushing sales

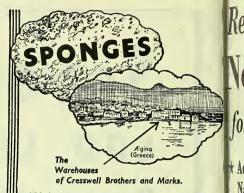
ISSUED BY BRITISH COD LIVER OILS (HULL & GRIMSBY) LTD.

August

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* A in 0





We have warehouses at Ægina, Greece, and are represented at all major centres of the Sponge Industry throughout the world. Let us record your name for earliest possible delivery of "RELIANCE" SPONGES & CHAMOIS LEATHERS.

CRESSWELL BROS. AND MARKS INTERNATIONAL SPONGE IMPORTERS, LTD.)

5A, BUCK STREET, CAMDEN TOWN, N.W.I PHONE GULLIVER 5462-3 'GRAMS SPONGE, NORWEST, LONDON



Sole distributors for United Kingdom Stanwhite Ltd., Parkhouse Wks., London, S.E.5. Rod 4416

Remarkable Success of New Medical Discovery

for all rheumatic pains

* Advertised locally and

* Profitable repeats.

Nationally.

★ Attractively packed in 2 dozen Display outers.

Retail 3/- per tube

Trade

26/- per doz.

13 to doz.

lots.

Clinical evidence, before the release for sale to the public of Aspralgic Balm, caused us to anticipate ample sales—but the phenomenal success of the line has outstripped anything we expected. Aspralgic Balm—which embodies a new principle in the treatment of all rheumatic conditions (except Osteo Arthritis)—is in such demand that we have been compelled to augment production considerably.

Success has forced us to concentrate upon manufacture and distribution. Consequently a representative may not have reached you yet. Please, therefore, telephone or write your requirements.

AR

LIMITED

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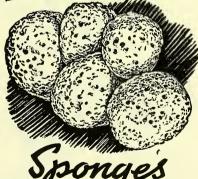


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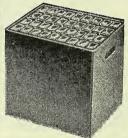
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HEMIST AND DRUGGIST **AUGUST 23**

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C. 2

1947

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EXECUTIVE position with scope for imagination and creative ability required by information officer with wide knowledge of chemical trade and present trends. Good organiser, experienced in publicity and sales administration. 1/644, C. & D.

ROREMAN tablet maker, sugar coater and all round experience. Strict control. 1/664, C. & D. Office.

MAN, age 33, desires change. 18 years' experience crude drugs, etc. Buying and selling. Mincing Lane experience. Used to staff control. Suitable Lane experience. Used to staff control. Suitable buyer's assistant. Full details 1/642, C. & D. Office.

PHARMACEUTICAL chemist with retail, hospital and administrative experience seeks position offering scope for initiative and hard work (West Riding preferred but not absolutely essential). 1/651, C. & D. Office.

PHARMACIST, 32, desires progressive appointment. Several years' experience laboratory control and production malt products and packed goods. Married, 'house essential. 1/655, C. & D. Office.

REPRESENTATIVE desires change, 12 years' experience in the pharmaceutical trade throughout Yorkshire. Excellent sales record. Would like progressive post. 1/606, C. & D. Office.

TRAVELLER, working N. and E. Yorks, Durham, Northumberland and Lincs. Established connection chemists, Co-ops., etc., wishes to represent house with well-known lines, including toilets. Salary, commission and expense basis. Full details to 1/563, C. D. Office.

APPOINTMENTS

CORPORATION OF MANCHESTER

HEALTH DEPARTMENT DEPUTY SENIOR PHARMACIST— CRUMPSALL HOSPITAL

Applications are invited for the appointment of Deputy Senior Pharmacist at Crumpsall Hospital (adult, general—1,400 beds), Crumpsall, Manchester, 8.

Manchester, 8.

Candidates should possess a qualification granted by or recognised by the Pharmaceutical Society of Great Britain, and have had experience in the work of a hospital dispensary.

Annual cash salary and conditions of service in accordance with the recommendations of the Joint Negotiating Committee (Hospital Staffs), i.e., £425 per annum, rising by annual increments of £20 to a maximum of £525.

Applications, stating age, qualifications, and

Applications, stating age, qualifications and experience are to be addressed to the Medical Superintendent at Crumpsall Hospital, to be received by him on or before 6th September,

Canvassing in any form is prohibited. PHILIP B. DINGLE.
Town Clerk.

Town Hall, Manchester, 2. 16th August, 1947.

S.W.1.

MIDDLESEX COUNTY COUNCIL

MIDDLESEX COUNTY COUNCIL
ASSISTANT PHARMACIST for CHASE
FARM HOSPITAL, Enfield, Middlesex. (Registered essential.) J.N.C. (Hosp. Staffs), salary
£370 inclusive; annual increments up to £450
p.a. Similar experience may determine commencing salary. Recently qualified pharmacists
eligible. Non-resident, established staff, subject to medical exam. Application, stating age,
qualifications, experience, with copies of up
to 3 recent testimonials, to MEDICAL DIRECTOR of HOSPITAL, IMMEDIATELY. No
forms. (Quote C 438 C I).

C. W. RADCLIFFE, Clerk of the County Council. Middlesex Guildhall,

August 23 MIDE REGIST for ASH ford, Mi

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August. S.W.1

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MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for ASHFORD COUNTY HOSPITAL, Ash-ford, Middlesex. Similar experience may deterford, Middlesex. Similar experience may determine commencing salary on inclusive J.N.C. (Hosp. staffs) scale £370 x £15—£450 p.a. Whole-time, established and pensionable, subject to medical examination. Non-resident. Post now vacant. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials to MEDICAL DIRECTOR of Hospital (quoting C.468 C D) by 30th August. No forms.

C. W. RADCLIFFE.

Clerk of the County Council. Middlesex Guildhall. S.W.1.

QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON, E.15

SECOND ASSISTANT PHARMACIST
Applications are invited from registered Pharmacists for this appointment. Salary scale, £370
per annum with annual increases of £15 up to
£450 per annum. Commencing salary within
Scale according to qualifications and experience.
Applications giving full particulars of age, qualifications and experience and copies of recent
testimonials should be sent to the House
Governor and Secretary as soon as possible.

M. J. HUNTLEY,
House Governor and Secretary

House Governor and Secretary.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required at: — EPSOM COUNTY HOSPITAL, Dorking Road,

Epsom. ST. LUKE'S HOSPITAL, Guildford. Commencing salary on grade £370 x £15— £430 x £20—£450 p.a. inclusive. Applications in writing, stating age, qualifications and experience, with a copy of not more than three recent testimonials, should be sent to the Medical Superintendent of appropriate Hospital.

LONDON COUNTY COUNCIL

PART-TIME ASSISTANT PHARMACIST required for duty at:—
Leavesden Hospital, Abbot's Langley, Herts.
Tooting Bec Hospital, Tooting Bec Road,
S.W.17, and

St. Lawrence's Hospital, Caterham, Surrey. Candidates must be Registered Pharmacists. Salary five shillings an hour for a maximum of 21 hours a week. Apply to Medical Superintendent. (2728.)

QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON, E.15

APPOINTMENT OF SENIOR ASSISTANT PHARMACIST

Applications are invited for the post of Senior Assistant Pharmacist (male) with salary according to J.N.C. Scale (£415 x £15 to £490. Experience will be taken into account in determining the commencing salary within this scale. Pension Scheme in force. Applications with full particulars and copies of testimonials to be sent to the House Governor and Secretary as soon as possible.

MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST for HAREFIELD COUNTY HOSPITAL, Harefield, Middlsex (Registered essential), J.N.C. (Hosp. Staffs) salary £370 inclusive; annual increments up to £450 p.a. considered. Similar experience may ##400 p.a. considered. Similar experience may determine commencing salary. Recently qualified pharmacists eligible. Whole-time, unestablished, possible establishment; subject to medical examination. Application stating age, quals., exper., with copies of up to 3 recent testimonials to MEDICAL DIRECTOR at Hospital, IMMEDIATELY. No forms (quote C 292 C D).

C. W. Radcliffe, Clerk of the County Council. Middlesex Guildhall, S.W.1.

THE GENERAL INFIRMARY AT LEEDS

Applications are invited for the appointment of ASSISTANT PHARMACIST (male). Salary in accordance with the J.N.C. scale commencing at £350 plus meals, which will be provided when on duty. Federated superannuation scheme in force, Night and week-end duty will be worked in rotation. Previous hospital experience not essential. Applicants must reply in own handwriting, stating sex, age, and experience, and writing, stating sex, age and experience, and also enclose copies of not more than three recent testimonials to the HOUSE GOVERNOR AND SECRETARY.

THE WEIR HOSPITAL,

WEIR ROAD, BALHAM, S.W.12
DISPENSER required for holiday duty,
1-6 September (inclusive). Non-resident. Apply to the Secretary-Superintendent.

AGENCIES

12/6 for 36 words or less, 3d. for every additional word

A GENTS for Greece. We are now able to accept agencies in Greece for British firms manufacturing the following products: Chemists', Druggists' and Veterinary supplies. Scientific instruments (chemical and surgical). Any firms requiring such agencies are invited to contact Dr. Thalis Cassimatis, Chemist and Druggist, 8 Skoufou Street,

Cassimatis, Chemist and Druggist, 8 Skoufou Street, Athens, Greece.

ESTABLISHED wholesalers having good warehouse space, supplying chemists, beauty parlours, etc., South-West areas, desire appointment as sole stockists and distributors of nationally advertised cosmetic preparations. CML, Tavistock, Devon. 1/657, C. & D. Office.

RAQ. Agencies required for dental creams of British manufacture for distribution in Iraq. Mr. Ephraim Simon Mochi, P.O. Box No. 30, Baghdad, Iraq.

Mr. ppnraim Simon Mochi, P.O. Box No. 30, Baghdad, Iraq.

MANUFACTURERS are invited to contact wholequality lines, toilet preparations and fancy goods. Stationery and surgical dressings accepted. Details to 1/641, C. & D. Office.

To 1/041, C. & D. Office.

TO manufacturers only. Sole agency for London and Home Counties required by agent holding stronge personal connection, 15 years. Wholesale chemists, hairdressers, sundriesmen, general warehousemen, etc. London office. Wholesale only. Commission basis. 1/629, C. & D. Office.

WELL-ESTABLISHED distributors with good connections amongst chemists, stores, etc., are

connections amongst chemists, stores, etc., are open to receive inquiries for marketing proven articles. Write in confidence to 1/663, C. & D. Office.

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BUSINESS OPPORTUNITIES

12/6 for 36 words or less, 3d. for every additional word

A DVERTISER wishes to purchase an unused or little-used trade mark registered for soap and/or disinfectants. Box R 902, Lee & Nightingale, Liverpool.

A SSISTANT to owner of small pharmaceutical manufacturers/exporters required, North London. Previous experience sales, professional contacts, advertising copy. Full particulars, age, salary, to 1/584, C. & D. Office.

FILLING and packing of bottles, including supply of small bottles, can be done by manufacturing chemists. Technical supervisory staff available, it required, for manufacturing and packing. 1/568, C. & D. Office.

HAVE you got a sound and original idea for consistently increasing your number of permanent customers? If not, let me help you. I can send you a detailed, sales-productive innovation which will rapidly increase the turnover and individuality of your pharmacy. Details forwarded on request. of your pharmacy. I 1/575, C. & D. Office.

MANAGING director of commercial research laboratories, with long record of successful marketing, administration and research, would like to contact progressive organisation, seeking expension and new lines, on profit-sharing basis. Strict confidence observed. Principals only. Box 1/631, C. & D. Office.

MESSRS. HOOK SPREADBURY & CO., of 45 Pickford Lane, Bexleyheath, Kent, are desirous of contacting bona fide manufacturer with a view to handling their products on a wholesale basis. Area covered from Kent to Cornwall inclusive.

OLD-ESTABLISHED Central-European O maceutical manufacturers with wide export connections seek contact with similar concern with the aim of manufacturing their products in Eng-land. Productions interested in are: Neoarsfenamin, proteovital, liver products, injections and peroral products, plasters, X-ray contrast materials, calcium injections, etc. Please reply to 1/674, C. & D. Office.

OILETS quota of £560, to December, 1947 for disposal. Offers of purchase to 1/668, C. & D. Office.

BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word

BOTTLE-FILLING machine manufacturing organisation in London to be sold as going concern. Owner, who is also patentee, is going abroad. Large orders in hand and every prospect of great expansion. Principals or Solicitors only, to G. T. C., 1 Dartmouth Road, N.W.2.

CIRENCESTER. High-class shop dealing in cosmetics, toilet goods, etc. Well-situated; excellent fittings and well-stocked. Rent £52 p.a. Landlord paying rates. Lease could be arranged. Price £300 for quick sale, to include goodwill, fixtures and fittings; stock at valuation. For further particulars apply to Parkin S. Booth, 14-17 Holborn Viaduct, London, E.C.1.

PRUG store for sale. Profitable business. Est. 40 years. Splendid opportunity for qualified chemist. Surrey, 12 miles from London. Owner retiring. Price \$2,000. Rent £110 per annum. Apply, 1/643, C. & D. Office.

DURSLEY, Glos. High-class shop dealing exclusively in cosmetics, toilet goods, etc.; ex-Clusively in cosmeries, toner goous, etc.; excellent position. Rent £75 per annum; well-stocked. Price £450 for quick sale to include lease, goodwill, fixtures and fittings, plus stock at valuation. For further particulars apply to Parkin S. Booth, 14-17 Holborn Viaduct, London E.C.I.

TONDON. Substantial old-established group of

Holborn Viaduct, London E.C.I.

ONDON. Substantial old-established group of eight retail businesses for sale. All run under management. Total purchase price to include freehold properties, \$42,500, which represents under \$15,000 in respect of the goodwill. The turnover averages about \$800 a week. Apply with banker's reference, to 1/645, C. & D. Office.

MANUFACTURING chemist, with cosmetic grating to Canada, has business for sale. Excellent home and export sales for quota lines and general chemicals. Principals only, 1/662, C. & D. Office.

MANUFACTURING chemists and wholesalers business with cosmetics quota and well introduced trade mark. If required, together with free-hold and vacant possession of seven newly decorated

hold and vacant possession of seven newly decorated and well furnished rooms, etc. C.H. and C.W. near West End. Owner going abroad. 1/202, C. & D. Office.

OLD-ESTABLISHED chemists' business now run under management as drug store in centre of

under management as drug store in centre of

under management as drug store in centre of West Riding City. Modern-fronted, beautifully fitted; gross profit exceeds £2,000 per annum, increasing; long lease; ample scope; bona fide enquirers with £5,000. 1/660, C. & D. Office.

TROUD, Glos. High-class shop dealing in cosmetics, toilet goods, etc., situated in centre of town; steady turnover, could be improved by personal supervision. Suitable for conversion to chemists' or hairdressers' business. Lease 12 years to run, rental £275 per annum. Excellent fittings. Price required £1,400 for lease, goodwill, fixtures, or near offer. Stock at valuation. For further particulars apply to Parkin S. Booth, 14-17 Holborn Viaduct, London, E.C.1.

MISCELLANEOUS SALES

12/6 for 36 words or less, 3d. for every additional word

A SPIRIN tablets, 5-gr., 50 gross bottles, packed 25's, and 50 gross bottles packed 100's, for disposal. Samples on request. Offers to 1/658, disposal.

disposal. Samples on request. Offers to 1/658, C. & D. Office.

BOTTLES. Surplus to requirements, 8-oz., wide-mouth, 1-oz and 4-oz. sprinkler; all English glass, fitted bakelite caps. Lots vary 3-9 gross. Offers to 1/672, C. & D. Office.

D.D.T. Insect Powder in cardboard cartons, each weighing 2 oz. 120 gross available, 18/- gross net. Rushtons, 52 West Street, Southport Southport.

FOR SALE. Approximately 800 gross 1-oz, and 140 gross 3-oz. Aluminium tins with slip lids. Best offer secures. 1/667, C. & D. Office.

CLASS vials. 50,000 available, 13/14 mil., 3 inches long, 2s. per gross. Affined Basic Chemicals, Ltd., Empire Works, Desborough Road, High Wycombe, Bucks.

L'IMITED quantity of bottles available. Medical, toilets, winchesters, etc. State requirements; also surplus stocks wanted. Write, 1/620, C. & D. Office.

PHENAZONE, B.P.; offers invited for part or whole of surplus stock of 217½ lbs. 1/633, C. & D. Office.

C. & D. Office.

Surplus mineral oil available. A number of 5- and 40-gallon drums. Enquiries invited. L.L.N. & Co., Ltd., 265 Anlaby Road, Hull. Surplus. Ozokerite black Rumanian. Quantity available. London warehouse. Enquiries to 1/646, C. & D. Office.

URPLUS. Technical white oil, Pool 30, B.P., odourless, at 7/6 per gallon; in 45-gallon or gallon drums. Drums, rail carriage free. Ripple ad, Barking, Essex. Rippleway 3016.

GROSS 2-dm. perfume bottles, very attractive, complete with plastic caps and wads at 30/r gross; 25-gross 4-oz. medical flat bottles, comte with best caps at 50/- per gross. 1/659, C. &

Office

Title Caps and the control of the caps and caps and caps are caps. 36/- gross carr. paid. Sample on the caps. 36/- gross carr. paid. Sample on the caps. 36/- gross carr. paid. Sample on the caps. 36/- gross caps. 37/- gross caps. 37/- gross delivered. 100 caps. 36/- gross delivered. 100 caps. 36/- gross delivered. 50/- gross delivered. 50/- gross delivered. 1/531, C. & D. Office.

WANTED

6 for 40 words or less, 2d. for every additional word

BIG price offered for home cines, cameras, or projectors. Bell-Howell, Kodak, G.B., etc. so Leica, Contax and other precision cameras, largers, exposure meters, etc. Prompt cash. Walce Heaton, Ltd., 126-7 New Bond Street, London,

NY quantities required, stearic acid, paraffin wax, glycerine, B.P. petroleum jelly, coumarin d peppermint oil. Full particulars to 1/636, C.

UTOMATIC cream filler wanted at once; big

price paid. Shavex Co., Bavaria Road, Hol-way, N.15. OTTLES wanted. 20-oz. and 26-oz. cordial or

wine type. Please quote for small or large uantities, to A. E. Bevan, Ltd., 20A Hall Street, outhport, Lancs.

"LYCERINE wanted, any quantities taken of J. B.P. quality. Cash by return. State quantity vailable and price required to 157/296, C. & D.

J Stearic Acid, chemically pure glycerine, also ny alkalies. 1/634, C. & D. Office.
IQUORICE and menthol pellets required in

bulk. 1/640, C. & D. Office.

DURDY World labeller wanted in good condition.

Full particulars to Box 775, Smiths', 100 Fleet Freet, London, E.C.4.
TEARIC acid triple pressed required in large quantities. 147/850, C. & D. Office.
WANTED. 49 lbs. acetyl salicylic acid. Write, 1/630, C. & D. Office.
WANTED to purchase, toilet quota, by firm of manufacturing chemists, spirit negroit accounts.

M manufacturing chemists; spirit permit essential. Reply in strict confidence, to 1/637, C. & D. Office. 26-02 and 13-0z. wine or champagne bottles required. 625/524, C. & D. Office.

EXPORT TRADE

MANUFACTURERS of high-class pharmaceuti-cal products require sole distributors (or rep-resentatives) throughout the world. Write 1/652,

WE offer for export: Acetic acid, ammonium chloride, aniline oil, aniline salt, white arsenic. 1/499, C. & D. Office.

PREMISES TO LET

12-YEAR lease available immediately on 4,000 sq. ft. factory premises ideally situated in City. Fully equipped as bottling and packing plant. Enquiries to 1/619, C. & D. Office.



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Steadily increasing demands for Tampax are now being met by the improved supply position. This inevitably means increased sales for you—sales which can be helped by displaying Tampax prominently in your window and on your counter, for where women see, they buy. We shall be happy to send you on request either or both of the attractive sales aids shown above.

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fashion. Ask for particulars.



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